



J. SEIDEMANN **World
Spice Plants**

Economic Usage, Botany, Taxonomy



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World Spice Plants

Johannes Seidemann

World Spice Plants

With 93 Figures

Dr. Johannes Seidemann
Neuendorferstrasse 25/26
D - 14480 Potsdam
E-Mail: j.seidemann@arcor.de
Germany

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Foreword

It is a pleasant fact that general consciousness of health and diet is growing, thus enabling the public, by means of a balanced diet, to participate in preserving global health. Spices and aromatic plants have a role to play in this which should not be underestimated. It involves not only the use of spices in preparing good tasting meals, but equally the increasing use of spices in all areas of the food industry, and also in pharmacy and medicine. The observations of our ancestors that certain herbs and their parts (leaves, fruits and seeds) not only improve the flavor of foods but have a positive effect on our health are being turned to good use.

Initially, our forefathers collected only local plants. But via foreign trade, voyages of discovery, migration and even wars they came into contact with new plants, including many spices from other geographical areas. The oldest spice discoveries were made in Mexico. The native Mexicans were spicing their meals with chilli as early as 7000 B.C. For the western world the origins of spices was India. Five thousand years ago there was already an extensive network of trade routes ranging from China to India, Persia, Mesopotamia and Egypt. The remains of certain spices (aniseed, fenugreek, fennel, cardamom, caraway, saffron and cinnamon) were found in the pyramids, indicating their use as burial gifts. In the world of the pharaohs, spices were not reserved for the ruling classes, the meals of the slaves were also spiced. This was not an act of charity but was intended to preserve the health of the workforce. Egyptian construction workers rebelled around 1600 B.C. because garlic, which was important for counteracting the negative health effects of building the pyramids, had been removed from their diet plan (the first strike in history!). The significance of spices at that time can be gleaned from the collection of recipes entitled „Papyrus Ebers“, which was written in 1500 B.C. at the River Nile.

For centuries spices were transported along the caravan trails from China and India to Europe. The Silk Road was one of the more famous of these trade routes.

Despite their long tradition spices are subject to international modern scientific research. This has made it necessary to disseminate knowledge to a large audience of interest. This book addresses this need by informing the reader about the complex worldwide use of spice plants.

The many spice and aromatic plants are arranged in alphabetical order of their botanical relevance. It includes all species which have been cultivated for the above purposes. It also covers species whose usage has long ceased or which are used only rarely or have become wild. In this respect we have aimed at comprehensiveness. Furthermore, we have included plants used as pot herbs or whose ashes are used as a substitute for cooking salt, or those used as a basis of various condiments such as mustard, soy sauce, ketchup, etc., or are used to add aroma to foods, like spirits. In total over 1400 plants have been collated. Some of them are relevant only to a certain region. Plants and their

extracts or ethereal oils used exclusively in perfumes and cosmetics have not been included.

The register of literature has been designed to facilitate intensive study of a specific plant or spice. The analysis of scientific literature – particularly over the last 40 years – was achieved by means of original works, specialist journals, textbooks, the secondary literature mentioned in all of these as well as our own database. Works both on botany and agriculture, and on chemistry, pharmacodynamics and usage have been considered. It can be seen clearly that individual spices have been treated very differently. Whilst the literature on many spices is almost never ending, e.g. *Allium*, *Capsicum*, *Glycine*, *Mentha*, *Ocimum*, *Origanum*, *Vanilla* and *Zingiber*, a few spices are completely lacking any significant information to fall back on. In a few individual cases our own personal experiences are included.

The book is aimed principally at spice and aroma experts, pharmacists, botanists and interested lay persons. But we also had in mind food chemists, dieticians and agricultural scientists, for whom botany, chemistry and pharmacological aspects may be of interest. It is hoped that those occupied in the spice and aroma industry involved in creating spice blends and the like will also take inspiration from the book.

The many color illustrations will hopefully acquaint the reader with both well and lesser known spice plants and with the spices from various geographical areas.

It is with great pleasure that I thank all those colleagues who offered advice and were happy to answer my questions. Without the generous assistance of the Botanical Garden and the Botanical Museum in Berlin-Dahlem this book would not have been possible. In particular I would like to thank the Directors Drs. Hakki and Th. Raus for their interest and discussions. They granted me permission to use their very extensive library and archive as well as the herbarium and the large collections which acquainted me with many unknown spices and aromatic plants and their various parts. My particular thanks go to Dr. Peter Scharf, formerly of the Botanical Institute of the University of Potsdam, for reading through the manuscript. I am also grateful to Mr. H.-D. Neuwinger St Leon for invaluable information particularly on African plants used as spices. And last but not least I thank Dr. Th. Mager and Mr. A. Spencer of Springer Verlag who accommodated many of my wishes concerning the layout and content of the book.

Author and publisher are fully aware that a work of this kind can never be exhaustive and that possible inaccuracies and gaps are unavoidable. Hints for additions and improvements by the readership will be very welcome.

Potsdam April 2004
Johannes Seidemann

Structure of Entries

The spice plants, plant spices and aromatic plants – hereafter referred to collectively as spices – are arranged in alphabetical order of their scientific genus. In the case of multiple species of a genus the arrangement of these is also alphabetical. Synonyms have been included with the species names. Of the myriad local names for spices only the more common have been included. They are followed by the usage of plants and which parts are used as spices, together with information on their geographical distribution and areas of cultivation, and finally a list of the relevant literature.

Many lesser known plants have been included whose usage is based on personal experiences on travels and those of our colleagues. In these cases there is often no literature available.

Scientific Names

The scientific plant names with their author names are in accordance with the International Code of the Botanical Nomenclature (ICBN) of 1978 (cf. Zander (2002) *Handwörterbuch der Pflanzennamen*, 17. edn. Ulmer, Stuttgart, or Hanelt P (2001) *Mansfeld's Encyclopedia of Agricultural and Horticultural Crops*. Springer, Heidelberg Berlin New York). It is emphasized that the oldest publication determines the nomenclature of a taxonomical group. Varieties, types and sorts have been included only in rare cases.

Synonyms

The most important plant synonyms are included for each spice. These are listed alphabetically with a cross reference to the official plant name.

Common Names

Listed after the English or anglicized name are other common names listed alphabetically by language or region of usage.

Inclusion of the various vernacular plant names in different languages was achieved by reference to the literature, both books and journals on the subject and dedicated dictionaries of plant names (Hanelt 2001, Quattrocchi 1999/2000, Kays/Dias 1995 and Wiersma/Leon 1999, etc). This was not always easy, particularly with Chinese, Indian and African names due to their sheer number, the size of the countries and the many tribes and peoples. Only the more common names have been included.

Usage

Here there are short details of usage as spice, pot herb, ingredient for condiments and the flavoring of food and dishes. Plant ashes used as a substitute for salt are listed under condiments.

Plant Parts

In the course of studying the literature it became evident that details of the used plant parts is often missing. In the case of better known plants these are already known, but it is a mistake to assume that the parts are always the same for different species of a genus. For instance, pepper does not always provide its fruit for flavouring but in some cases only the leaves. Conversely, multiple parts of some plants can be used, as with for example coriander and parsley, where the fruit and the seeds, leaves and sometimes even the roots are used.

Distribution

Details of distribution are given, wherever possible, uniformly – in some cases in the general area, like North America with Canada, South or Latin America from Mexico to Terra del Fuego; Europe; East Asia; the Near East; Africa; Australia and New Zealand, but at other times confined to a certain zone, like North or West Africa, or Central America. Where the distribution of a species is limited to a very small area, details of the countries, states or provinces have also been considered.

Notes

Here we have given special notes on individual plants, such as on taste, on types, e.g. green and white pepper with *Piper nigrum*, or on discovery, e.g. with *Mentha piperita*.

Literature

A selection of publications on which the information presented in the book is based is given with each entry. Here we have reduced the reference to name and year of publication for single works, and in the case of larger multi-volume works we have added the volume number. A complete literature list, sorted alphabetically by author, is included at the end of the book. Where more than one work has appeared by the same author in a year these have been marked a and b, e.g. Seidemann 1995a. With the abbreviations of journals we have adhered to the international standard, whereby clarity has been given priority over conciseness.

A

Abelmoschus Medik. - Malvaceae

 **Abelmoschus ficulneus** Wight et Arn.

➤ *Abelmoschus moschatus* Medik.

 **Abelmoschus moschatus** Medik. **ssp.**
moschatus Medik. 

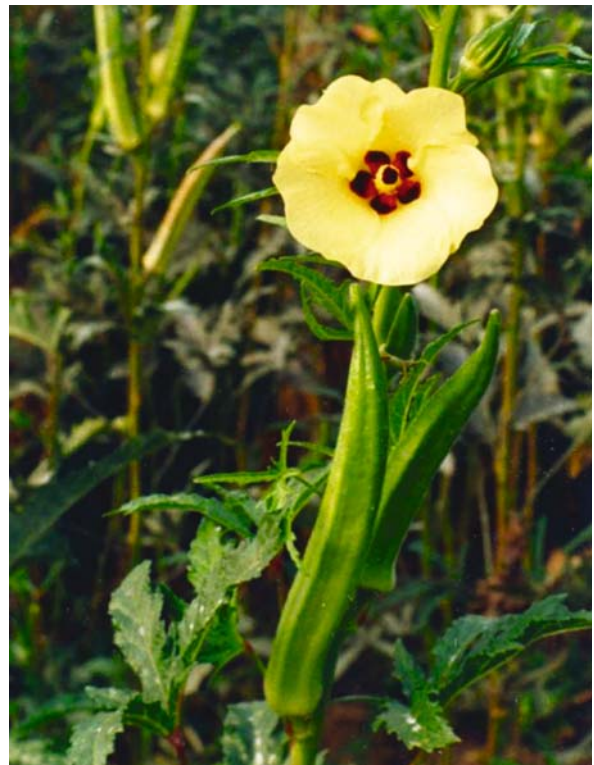
Synonyms ▶ *Abelmoschus ficulneus* Wight et Arn., *Hibiscus abelmoschus* L., *Hibiscus moschatus* Salisb.

Common Names ▶ abelmosk seed, ambrette seed, amber seed, musk mallow, musk okra; *Arabic*: abu-el-misk (father of moschus), abu-el-mosk, bamia; *Brazil (Portuguese)*: abelmosco, ambarino; *French*: ambrette, ketmie musquée; *German*: Abelmoschus-samen, Ambramalve, Ambrette, Bisamkörner, Muskateller-Eibisch; *Hindi*: algalia, mushk dana; *Italian*: abelmosco, ambretta; *Japanese*: ryû kyû-tororo-aoi; *Mexican*: Doña Elvira; *Pilipino*: kastuli, dalupang, daopang, marapoto; *Russian*: bamija, hibiskus; *Sanskrit*: latakasturi; *Spanish*: abelmosco, algalia, ambarcillo, ambarina, café extranjero, *Thai*: chamot-ton, somchaba, mahakadaeng

Usage ▶ spice, flavoring of coffee in Arabian regions; **product**: essential oil (liqueurs, tobacco industry)

Parts Used ▶ seed

Distribution ▶ E Africa, Indian to N Asia, Malaysia, N Australia, widely cultivated in tropical and warmer countries



 **Abelmoschus moschatus, flowering**

Bois 1934; Burkill 4, 1997; Cheers 1998; Cravo et al. 1992; Dastur 1954; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Nee et al. 1986; Oyen/Dung 1999; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Shiva et al. 2002; Small 1997; Täufel et al. 1993; Turova et al. 1987; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

A

**Abrus Adans. - Indian Liquorice -
Fabaceae (Leguminosae)** **Abrus precatorius L.**

Synonyms ▶ *Glycine abrus* L.

Common Names ▶ Crab's eye vine, Indian liquorice, jequirity, rosary pea; *Chinese*: xiang si zi, hsiang ssu, hung tou, tzu, *French*: liane réglisse, pois à Chapellet, réglisse sauvage; *German*: Paternostererbse; *India*: glumachi, gunchi, gunja, kunni, kunri, rati; *Malaysian*: akar, belimbing, saga betina; *Pilipino*: laga, kaloo, saga; *Vietnamese*: cam thao day, day chi chi

Usage ▶ substitute for liquorice

Parts Used ▶ root

Distribution ▶ tropical aera, native in Florida

Note ▶ The seeds contain abrin, a toxalbumin, an exceedingly poisonous substance.

Ayensu 1978; Erhardt et al. 2002; Uphof 1968

**Acanthopanax (Decne. et Planch.) Miq. -
Araliaceae** **Acanthopanax aculeatum Seem.**

➤ *Acanthopanax trifoliatum* (L.) Voss.

 Acanthopanax trifoliatum (L.) Voss.

Synonyms ▶ *Acanthopanax aculeatum* Seem.

Common Names ▶ Dreiblättrige Fingeraralie

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India: NE hills, Assam

Arora/Pandey 1996; WHO Manila 1990

**Acer L. - Maple -
Aceraceae** **Acer macrophyllum Pursh**

Common Names ▶ broad-leaved maple, big leaf maple, large leaf maple, Oregon maple, Pacific maple; *German*: Großblättriger Ahorn, Oregon Ahorn

Usage ▶ spic (rarely)

Parts Used ▶ cambium

Distribution ▶ SE Alaska, USA: Washington, Oregon, California, also cultivated

Note ▶ Native Americans used the maple cambium to savor meat.

Cheers 1998; Erhardt et al. 2002; Hanelt 2001; Pirc 1994; Seidemann 1993c; Small 1997; Uphof 1968; Wiersema/León 1999

 Acetosa pratensis Mill.

➤ *Rumex acetosa* L.

 Acetosa scutata (L.) Mill.

➤ *Rumex scutatus* L.

 Achasma walang (Blume) Val.

➤ *Etlingera walang* (Blume) R.M. Smith

**Achillea L. - Yarrow -
Asteraceae (Compositae)** **Achillae ageratum L.**

Synonyms ▶ *Achillae decolorans* Schrad.

Common Names ▶ garden mace, sweet nancy, sweet yarrow; *German*: Garten-Schafgarbe, Süße Schafgarbe

Usage ▶ spice

Parts Used ▶ leaf, herb

Distribution ▶ W Europe: Iberia, France, England, Croatia?

Davidson 1999; Erhardt et al. 2002; Schultze-Motel 1986; Uphof 1968



Achillea atrata L.

Synonyms ▶ *Ptarmica atrata* (L.) DC.

Common Names ▶ black-edged yarrow; *French*: achillée noire; *German*: Schwarze Schafgarbe, Schwarzwandige Schafgarbe

Usage ▶ spice; **product** of Iva liqueurs

Parts Used ▶ herb

Distribution ▶ Europe: Alpine regions of Germany, Austria, France, Italy, Switzerland, Austria, Slovenia

Aichele/Schwegler 4, 1995; Berger 4, 1954; Fleischhauer 2003; Hager 4, 1992; Schönfelder 2001; Uphof 1968



Achillea clavennae L.

Synonyms ▶ *Ptarmica clavennae* DC.

Common Names ▶ bitter yarrow; *French*: achillée amère; *German*: Bittere Schafgarbe, Steinraute, Weißer Speik; *Italian*: essenzio ombrellifera

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Alpine and subalpine regions of S, SE Europe: lower Austria, Croatia, Dalmatia, Bulgaria, Italian Peninsula.

Aichele/Schwegler 4, 1995; Erhardt et al. 2002; Hager 4, 1992; Uphof 1968; Wiersema/León 1999



Achillae decolorans Schrad.

➤ *Achillae ageratum* L.



Achillea erba-rotta All. ssp. **moschata** (Wulf.) I. Richardson

Synonyms ▶ *Achillae moschata* Wulf.

Common Names ▶ alpine yarrow, musk milfoil, musk yarrow; *French*: achillée, genepi blanc; *German*: Bisamkraut, Feldgarbe, Genipikraut, Ivakraut, Moschusschafgarbe; *Italian*: genepi

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ S, C Europe

Abraham/Seeber 1995; Aichele/Schwegler 4, 1995; Berger 4, 1954; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Schönfelder 2001; Uphof 1968; Wiersema/León 1999



Achillea millefolium L.

Common Names ▶ common yarrow, fragrant yarrow, milfoil, nose bleed, Western yarrow, woundwort, yarrow (herb); *Brazil (Portuguese)*: milfolhas; *Chinese*: yang shi cao; *French*: achillée millefeuille, herbe aux charpentiers, millefeuille; *German*: Achilleskraut, Gemeine Scharfgarbe, Gewöhnliche Schafgarbe, Wiesen-Schafgarbe, Tausendblatt; *India*: biranjasif, gandama, rooamari, rojmar; *Italian*: achillea millefoglio; *Japanese*: nokogiro-sô-zoku; *Korean*: choniphoppul; *Portuguese*: milefólia; *Russian*: tysjatschelistnik obyknovennyj; *Spanish*: cientoenrama, milenrama, milhojas, flor de pluma

Usage ▶ spice; flavoring

Parts Used ▶ fresh leaf

Distribution ▶ Europe, temperate Asia, India, Canada, USA, Mexico, Meso-America, Australia, New Zealand; widely native elsewhere

Agarwal 1990; Aichele/Schwegler 4, 1995; Anon. 1998; Berger 4, 1952; Bilgri/Adam 2000; Bremness 2001; Cheers 1998; Coiciu/Racz (no year); Czygan 1994; Dudtschenko et al. 1989; Erichsen-Brown 1989; Hager 4, 1992; Haggag et al. 1975; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hofmann/Fritz 1995; Hohmann et al. 2001; Hoppe 1949; Miller/Chow 1954; Newall et al. 1996; Orth et al. 1994, 1999; Pschyrembel 1998; Roth/Kormann 1997; Schaller 1995; Schönfelder 2001; Schultze-Motel 1986; Sharma 2003; Shawl et al. 2002; Suleiman et al. 1996; Täufel et al. 1993; Turova et al. 1987; Ubillos 1989; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zirvi/Ikram 1975



Achillea moschata Wulf.

➤ *Achillae erba-rotta* All. ssp. *moschata* (Wulf.) I. Richardson

A

**Achillea nobilis L.**

Common Names ▶ noble milfoil, noble yarrow; *German:*

Edel-Schafgarbe

Usage ▶ spice (sporadically), flavoring

Parts Used ▶ leaf

Distribution ▶ Europe, Turkey, Caucasus, frequently cultivated

Aichele/Schwegler 4, 1995; Erhardt 2000; Hager 4, 1992; Hoppe 1949; Schultze-Motel 1986

Achyranthes L. - Amaranthaceae

**Achyranthes aspera L.**

Common Names ▶ pricklychaff flower, rough chaff tree, Washerman's plant; *Chinese:* dao kou cao; *German:* Rauhklette; *India:* agava, apamarg, apamargamu, apang; *Pilipino:* hangod, hangor, higad-higad, nimikitan; *Vietnamese:* co nha ngu, nguru tat nam

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ tropical area, India, Pakistan, native in Spain

Note ▶ Used by the Shari Chad races (Africa) for making salt over the plant.

Dastur 1954; v. Koenen 1996; Uphof 1968

Achyrocline (Less.) DC. - Asteraceae (Compositae)

**Achyrocline satureioides DC.**

Common Names ▶ *Brazil:* alecrim da parede, macela, marcala do campo

Usage ▶ flavoring for bitter spirits

Parts Used ▶ flower

Distribution ▶ S America: Brazil, Uruguay

Hanelt 2001; Schultze-Motel 1986

Acinos Mill. - Lamiaceae (Labiatae)

**Acinos alpinus (L.) Moench.**

Common Names ▶ alpine calamint; *French:* calament des Alpes; *German:* Alpen-Steinquendel

Usage ▶ spice (rarely)

Parts Used ▶ herb

Distribution ▶ European Alps, Balkans, Turkey, NW Africa

Erhardt et al. 2002; Fleischhauer 2003; Schnelle 1999; Small 1997

**Acinos arvensis (Lam.) Dandy**

Synonyms ▶ *Acinos thymoides* Moench; *Calaminthe acinos* (Clairv.) Man., *Calamintha arvensis* Lam., *Satureja acinos* (L.) Scheele

Common Names ▶ basil thyme, mother of thyme, spring savory; *French:* basilic sauvage; *German:* Feldquendel, Steinquendel; *Russian:* duschewka, stschebruschka

Usage ▶ spice (sporadically), flavoring

Parts Used ▶ herb

Distribution ▶ Europe, Turkey, Caucasus, N Iran, Asia introduced in N America

Aichele/Schwegler 4, 1995; Cheers 1998; Erhardt et al. 2002; Fleischhauer 2003; Small 1997; Tucker 1986; Uphof 1968

**Acinos thymoides Moench**

▶ *Acinos arvensis* (Lam.) Dandy

**Acmella oleracea (L.) R.K. Jansen**

▶ *Spilanthes oleracea* L.

Acorus L. - Sweet flag - Acoraceae

Acorus asiaticus Nakai

➤ *Acorus calamus* L.

Acorus calamus L.

Synonyms ▶ *Acorus asiaticus* Nakai; *Acorus terrestris* Spreng.

Common Names ▶ calamus, gladdon, lag root, myrtle flag, myrtle grass, sweet flag, sweet myrtle; *Arabic*: vash, vaj; *Chinese*: shi chang pu; *Dutch*: kalmoeswortel; *French*: acore calame, acore odorant, acore vrai, jonc odorant, lis de marais; *German*: Kalmus, Deutscher Ingwer; *Hindi*: bacc, baccha, gorbach; *India*: buch; *Italian*: calamo aromatico; *Japanese*: shôbu; *Malaysian*: deringu, jeringan, jeringau; *Russian*: air, air trostnikowyj, irnyj koren', gair, jawer, tatarskoe sel'e, sabel'nik, kalmus; *Sanskrit*: vaca ugragandha; *Spanish*: acoro, acoro verdadero, calamís, cálamo aromático

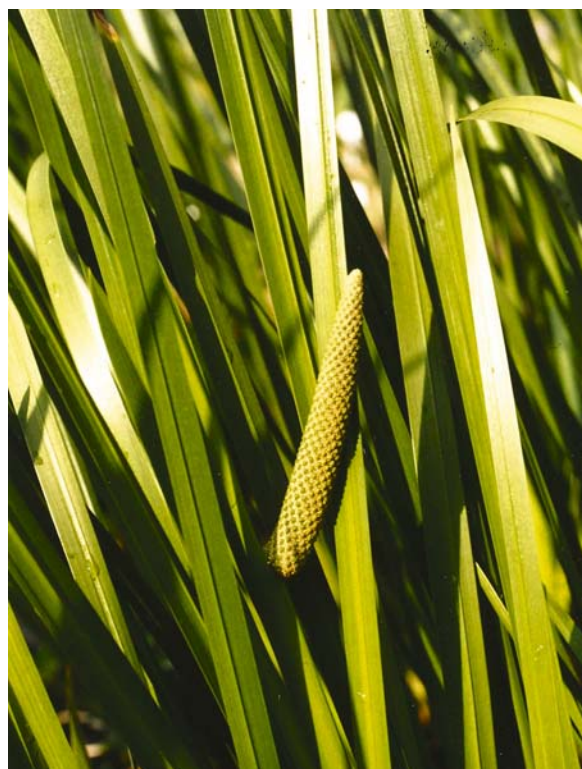
Usage ▶ spice; **product**: essential oil (calamus oil)

Parts Used ▶ rhizome

Distribution ▶ SE Asia, India, Himalaya, Sri Lanka to N China, Siberia, Japan, Malaysia; introduced to E, C Europe, Canada, USA; native elsewhere

Note ▶ The essential oil of the American tribe *Acorus calamus* L. var. *americanus* (Raf.) Wulff. are free of β -asarone. The asiatic tribe has a high β -asarone content.

Agarwal 1990; Aichele/Schwegler 5, 1996; Alberts/Muller 2000; Bilgri/Adam 2000; Bois 1934; Bournot 1968; Cheers 1998; Coiciu/Racz (no year); Dastur 1954; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hager 3, 1992; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Keller/Stahl 1982, 1993; Koschtschew 1990; Mazza 1985; Melchior/Kastner 1974; Motley 1994; Newall et al. 1996; Opdyke 1977; Özcan et al. 2002; Pochljobkin 1974, 1977; Pschyrembel 1998; Raina et al. 2003; Schneider/Jurenitsch 1992; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Stahl/Keller 1981; Täufel et al. 1993; Turova et al. 1987; Uphof 1968; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982



 **Acorus calamus, flowering**

Acorus gramineus Sol.

Synonyms ▶ *Acorus humilis* Salisb.

Common Names ▶ Chinese sweet grass, Japanese sweet flag, grass leaf sweet flag; *Chinese*: shi chang pu; *French*: acore à feuilles de graminée; *German*: Aniskalmus, Japanischer Kalmus, Lakritze-Kalmus; *India*: pahari buch; *Japanese*: sekisho; *Korean*: sokchangpho; *Vietnamese*: lay yam, xinh pau chu

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ E Asia: India, China, Thailand, Japan, Korea, Malaysia

Cheers 1998; Erhardt et al. 2002; Hanelt 2001; Leung 1991; Roth/Kormann 1997; Uphof 1968; WHO 1990; Wiersema/León 1999

Acorus humilis Salisb.

➤ *Acorus gramineus* Sol.

A

**Acorus terrestris** Spreng

➤ *Acorus calamus* L.

Acrodictidium Nees et Martius - Lauraceae

**Acrodictidium camara** Schomb.

Common Names ▶ Akawai nutmeg, Guayana nutmeg;
French: bois amer; *German*: Guayana Muskatnuss;
Spanish: cajueiro, camarão, cambará de cheiro

Usage ▶ spice (locally)

Parts Used ▶ seed

Distribution ▶ Guyana

Hoppe 3, 1987

**Acrodictidium puchury-major** Mez

➤ *Ocotea puchury-major* Mart.

Acronychia Forster et G. Forster - Rutaceae

**Acronychia laurifolia** Bl.

➤ *Acronychia pedunculata* (L.) Miq.

**Acronychia odorata** (Lour.) Baill.

Synonyms ▶ *Cyminosma odorata* DC., *Jambolifera odorata* Lour.

Usage ▶ condiment (in Malaysia)

Parts Used ▶ leaf

Distribution ▶ tropical Asia, especially Malaysia

Uphof 1968

**Acronychia pedunculata** (L.) Miq.

Synonyms ▶ *Acronychia laurifolia* Bl., *Cyminosma resinosa* DC., *Jambolifera resinosa* Lour.

Usage ▶ condiment; **product**: essential oil

Parts Used ▶ tender leaves

Distribution ▶ India: W, E Ghats, NE Himalayan hills

Arora/Pandey 1996; Hager 4, 1992; Oyen/Dung 1999

Adasonia L. - Monkeybread, Baobab - Bombacaceae

**Adansonia baobab** L.

➤ *Adansonia digitata* L.

**Adansonia digitata** L.

Synonyms ▶ *Adansonia baobab* L.

Common Names ▶ monkey bread tree, cork tree, (common) baobab, African calabash, Judas's bag; *Arabic*: hijid; *French*: baobab, calebassier du Sénégal, pain de singe; *German*: Afrikanischer Affenbrotbaum, Affenbrotbaum, Baobab; *India*: gorakh amlī, gorakh chinch, magimavu, kalp; *Italian*: baobab, calabaceira; *Portuguese*: baobab; *Russian*: baobab; *Spanish*: baobab; *Swahili*: mbuyu

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ tropical Africa, Madagascar, Arabian Peninsula; widely native in the Tropics

Aké Assi/Guinko 1991; Bendel 2002; Cheers 1998; Chevalier 1906; Dastur 1954; Hanelt 2001; Ijomah et al. 2000; v. Koenen 1996; Kremer/Jaeggi 1995; Lewington 1990; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Toury et al. 1957; Uphof 1968; Wickens 1979, 1982; Wiersoma/León 1999

Adenandra Willd. - Rutaceae

**Adenandra fragrans** (Sims) Roem. et Schult.

Synonyms ▶ *Diosma fragrans* Sims

Common Names ▶ breath of heaven; *German*: Himmelsduft; *S Africa*: anysboegoe, anysbuchu, klipsissie, sissie

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ S Africa, especially Cape region

Erhardt et al. 2002; Hanelt 2001; Uphof 1968; Usher 1967

Adenanthra tetraptera Schum. et Thonn.

▶ *Tetrapleura tetraptera* (Schum. et Thonn.) Taub.

Adenocalymna Mart. ex Meissner - Bignonaceae

Adenocalymna alliaceum Miers

Common Names ▶ *Spanish*: cipó d'alto

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ S America

Hanelt 2001; Terra 1966

Adiantum L. - Maidenhair Fern - Adiantaceae (Pteridaceae)

Adiantum nigrum L.

Common Names ▶ black spleenwort; *Bolivia*: quilquina; *French*: capillaire boire, doradille noire; *German*: Schwarzer Frauenhaarfarn, Schwarzstieliger Krullfarn; *Russian*: adiant(um) tschjornaja

Usage ▶ spice for sauces (Lajhua, Sarsa)

Parts Used ▶ leaf

Distribution ▶ S America: Andes; native in SE Asia

Aegle Corrêa - Rutaceae

Aegle marmelos (L.) Corrêa ex Roxb.

Synonyms ▶ *Crataeva marmelos* L., *Crataeva religiosa* Ainslie

Common Names ▶ bael, bel, Bengal quince, golden apple, Indian bael; *Arabic*: shul; *Chinese*: yiu-tu-chih; *Dutch*: slijim appelboom; *French*: bel Indien, oranger du Malabar; *German*: Baelbaum, Belbaum, Bengalische Quitte; *India*: beli, belethi, bilva, marmel, siriphal; *Javanese*: maja, modjo; *Portuguese*: marmelos; *Spanish*: bela, milv; *Thai*: ma tum

Usage ▶ flavoring

Parts Used ▶ young leaf and shoot

Distribution ▶ India, Indochina, Myanmar, cultivated in Malaysia

Arora/Pandey 1996; Berger 3, 1952; Blancke 2000; Bose 1985; Daniel/Rajendran 1996; Dastul 1954; Davidson 1999; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Kumar 2003; Schultze-Motel 1986; Sharma 2003; Täufel et al. 1993; Uphof 1968; Verheij/Coronel 1991; Wiersoma/León 1999; Zeven/de Wet 1982

Aegopodium L. - Apiaceae (Umbelliferae)

Aegopodium podagraria L.

Common Names ▶ ashweed, bishop's weed, dwarf elder, goutweed, ground elder, herb Gerard; *French*: egopode, podagraire; *German*: Ackerholler; Geißfuß, Gewöhnlicher Giersch, Giersch, Podagra; *Italian*: castalda, girardina silvestre; *Russian*: snytobyknovennija

Usage ▶ pot-herb

Parts Used ▶ herb

Distribution ▶ temperate Asia, Europe, Turkey, Caucasus to C Asia, W Siberia, native elsewhere

Note ▶ The fruits used as falsification of *Carum carvi* fruits.

Aichele/Schwegler 3, 1995; Bilgri/Adam 2000; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischauer 2003; Hager 4, 1992; Hanelt 200; Hiller/Melzig 1999; Hoppe 1949;

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Melchior/Kastner 1974; Schönfelder 2001; Schultze-Motel 1986; Staesche 1972; Täufel et al. 1993; Uphof 1968; Wiersoma/León 1999

**Aeollanthus Mart. ex Spreng. -
Lamiaceae (Labiatae)**
 Aeollanthus buettneri Gürke

➤ *Aeollanthus pubescens* Benth.

 Aeollanthus heliotropoides Oliv.

Synonyms ▶ *Aeollanthus suaveolens* Mart. ex Spreng.

Common Names ▶ *Portuguese*: chegadinka, macassa

Usage ▶ pot-herb (locally), for flavoring soups

Parts Used ▶ leaf

Distribution ▶ tropical Africa: Nigeria, Cameroon

Burkill 3, 1995; Hanelt 2001; Irvine 1948; Schultze-Motel 1986; Uphof 1968

 Aeollanthus pubescens Benth.

Synonyms ▶ *Aeollanthus buettneri* Gürke

Usage ▶ spice, analog basil

Parts Used ▶ leaf, flower (local)

Distribution ▶ tropical Africa: Nigeria, Sierra Leone, from Mali to Cameroon, Central African Republic

Burkill 3, 1995; Dalziel 1957; Hanelt 2001; Schultze-Motel 1986; Sounhlou et al. 2002; Uphof 1968

 Aeollanthus suaveolens Mart. ex Spreng.

➤ *Aeollanthus heliotropoides* Oliv.

 Aethusa mutellina St. Lag.

➤ *Ligusticum mutellina* (L.) Crantz

**Aframomum K. Schum. -
Zingiberaceae**
 Aframomum alboviolaceum (Ridley) K. Schum.

Synonyms ▶ *Aframomum glatifolium* K. Schum., *Amomum alboviolaceum* Ridley

Common Names ▶ Cameroon cardamom; *Cameroon*: odjom; *German*: Kamerun-Kardamom, Sierra Leone-Kardamom

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ tropical Africa: Sierra Leone, Cameroon also cultivated

Berger 3, 1952; Berger 1964/65; Duke et al. 2003; Hanelt 2001

 Aframomum angustifolium (Sonn.) K. Schum.

Synonyms ▶ *Aframomum sanguineum* (K. Schum.) K. Schum., *Amomum angustifolium* Sonn., *Amomum sanguineum* K. Schum.

Common Names ▶ Madagascar cardamom, dark Crim-son cardamom, wild cardamom; *French*: carda-mome de Madagascar; *German*: Blutroter Karda-mom, Madagascar-Kardamom

Usage ▶ spice, the seeds are used like black pepper

Parts Used ▶ seed

Distribution ▶ E Africa, Madagascar, Zanzibar, Mauritius, Pemba and the Seychelles; cultivated on the Pemba Islands

Note ▶ In Near East and Egypt as addition to coffee.

Berger 3, 1952; 1964/65; Bois 1934; Coomes et al. 1955; Hager 5, 1993; Hanelt 2001; Hari et al. 1994; Melchior/Kastner 1974; Overdieck 1992; Peter 2001; Pruthi 1976; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Täufel et al. 1993; Teuscher 2003; Uphof 1968

 Aframomum cororima (Braun) P.C.M. Jansen

➤ *Aframomum korarima* (Peireira) Engl.


Aframomum daniellii (Hook.f.) K. Schum.

Synonyms ► *Amomum danielli* J.D. Hook.

Common Names ► bastard melegueta, Cameroon cardamom; *French*: cardamome de Cameroun; *German*: Bastard-Meleguetapfeffer; Kamerun-Kardamom

Usage ► spice

Parts Used ► seed

Distribution ► tropical W Africa: Cameroon, also cultivated

Adegoke/Shura 1994; Berger 1964/65; Bois 1934; Hager 5, 1993; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Täufel et al. 1993; Teuscher 2003


Aframomum exscapum (Sims) Hepper

Common Names ► alligator pepper, grains of paradise; *German*: Alligatortpfeffer, Stengelloser Alligatortpfeffer, Paradieskörner

Usage ► spice

Parts Used ► fruit

Distribution ► tropical W Africa

Duke et al. 2003; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003


Aframomum hanburyi K. Schum.

Synonyms ► *Amomum clusii* Hanb.

Common Names ► Cameroon cardamom; *French*: cardamome de Cameroun; *German*: Kamerun-Kardamom, Bastard Malagetta

Usage ► spice, condiment

Parts Used ► seed

Distribution ► tropical W Africa: Cameroon

Berger 1964/65; Bois 1934; Melchior/Kastner 1974; Overdieck 1992; Peter 2001; Pruthi 1976; Seidemann 1993c; Teuscher 2003; Uphof 1968; Zollo et al. 2002


Aframomum korarima Pereira ex Engl.

Synonyms ► *Aframomum cororima* (Braun) P.C.M. Jansen, *Amomum korarima* Pereira;

Common Names ► Ethiopian cardamom, korarima carda-

mom, false cardamom, nutmeg cardamom, Guragi spice; *Arabic*: habhal hobashi, heil; *French*: cardamome d'Ethiopie, poivre d'Ethiopie; *German*: Abessinischer Kardamom, Ethiopischer Kardamom, Guragi-Gewürz, Korarima-Kardamom

Usage ► spice, e.g. flavoring for coffee (or tea), bread, butter (Kefa Province)

Parts Used ► seed

Distribution ► Ethiopia, Somalia; also cultivated

Note ► In Arabia they serve the flavoring of coffee. The aroma is nutmeg-like.

Berger 3, 1952; Berger 1964/65; Biftu 1981; Hager 5, 1993; Hanelt 2001; Jansen 1981; Melchior/Kastner 1974; Norman 1990, 1991; Overdieck 1992; Peter 2001; Pruthi 1976; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Täufel et al. 1993; Teuscher 2003; Zeven/de Wet 1982


Aframomum latifolium K. Schum.

► *Aframomum alboviolaceum* (Ridley) K. Schum.


Aframomum letestuanum Gagnep.

Usage ► spice

Parts Used ► seed

Distribution ► tropical Africa: Cameroon, Congo; also cultivated

Hanelt 2001; Poulsen/Lock 1999; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Zollo et al. 2002


Aframomum macrospermum (Smith) Burkill

Common Names ► Guinea cardamom; *French*: cardamome de Guinée; *German*: Großsamiger Kardamom, Guinea-Kardamom

Usage ► spice (locally)

Parts Used ► fruit

Distribution ► Guinea

Berger 1964/65

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 Aframomum malum Schum.

Common Names ▶ East African cardamom; *German*: Ostafrikanischer Kardamom

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ E and tropical Africa

Uphof 1968

 Aframomum melegueta K. Schum.

Synonyms ▶ *Aframomum meleguetella* K. Schum.; *Amomum melegueta* Rosc.

Common Names ▶ Guinea pepper, Guinea grains, alligator pepper, grains of paradise, melegueta pepper; *Chinese*: hsi sha tou; *French*: graine de paradis, graine de maniguette, melegueta, poivre d'Afrique, poivre de Guinée, semance de paradis; *German*: Melegueta-Pfeffer, Paradieskörner, Grana paradisi, Alligatorpfeffer, Guineapfeffer, Piper Melegueta; *India*: malgoat; *Italian*: grani di melegueta, grani paradisi, mani guetta; *Russian*: amomum, ili malagetta, rauskoe serno, mallawetskij, gwinejskij perez; *Slovakian*: guinejské korenje; *Spanish*: granos de paraíso, malagueta, maniguette

Usage ▶ spice, e.g. admixture for "Ras el Hanout"

Parts Used ▶ seed

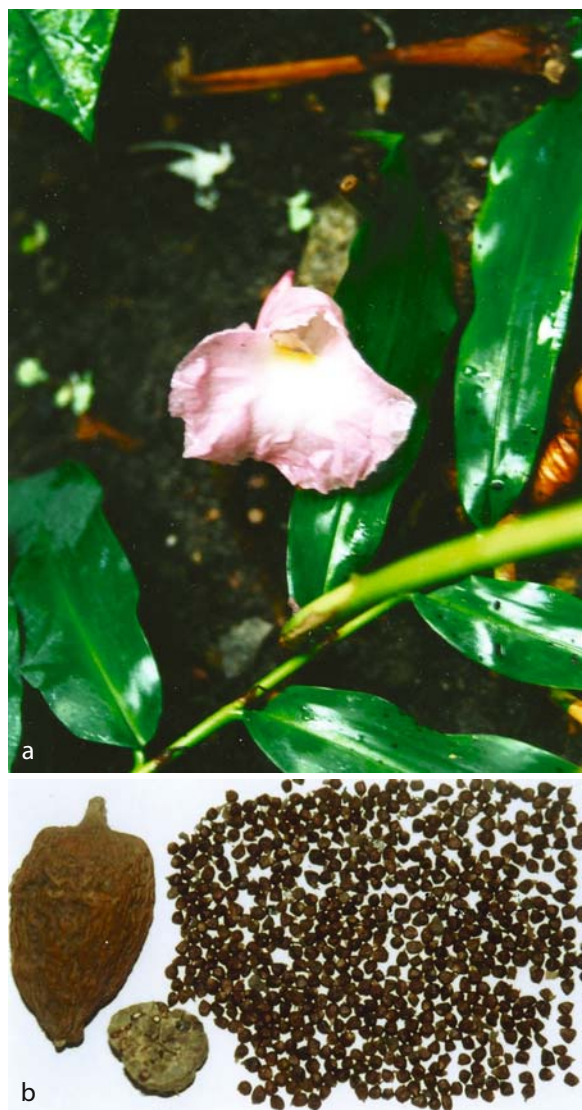
Distribution ▶ W tropical Africa; also cultivated from Guinea, Sierra Leone through Ivory Coast, Ghana, Benin, Nigeria, Cameroon, Gabon to Angola

Note ▶ In 1876 the plant was tried in the Singapore Botanic Gardens, but seems not to have succeeded.

Adegoke et al. 2003; Aedo et al. 2001; Berger 3, 1952; Berger 1964/65; Blancke 2000; Bois 1934; Boisvert/Huber 2000; Burkill 5, 2000; Craze 2002; Davidson 1999; Duke et al. 2003; Erhardt et al. 2002; Govindarajan et al. 1982; Griebel 1943; Hanelt 2001; v.Harten 1970; Hoppe 1949; Lock et al. 1977; Melchior/Kastner 1974; Norman 1990, 1991; Overdieck 1992; Peter 2001; Pochljobkin 1974, 1977; Pruthi 1976; Schenck/Nauendorf 1966; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersoma/León 1999; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

 Aframomum meleguetella K. Schum.

▶ *Aframomum melegueta* K. Schum.



■ **Aframomum melegueta**: a flowering b fruit and seeds


Aframomum pruinatum Gagn.

Common Names ▶ Cameroon cardamom; *German*: Be-reifter Kardamom, Kamerun-Kardamom

Usage ▶ spice (rarely)

Parts Used ▶ seed

Distribution ▶ W Africa; Cameroon

Zollo et al. 2002

 **Aframomum sanguineum** (*K. Schum.*) *K. Schum.*

➤ *Aframomum angustifolium* (*Sonn.*) *K. Schum.*

 **Aframomum sceptrum** (*Oliv. et Hanb.*) *K. Schum.*

Common Names ▶ black amomum, Guinea grains; *German*: Schwarzer Kardamom, Guinea-Körner

Usage ▶ spice (essential oil), flavoring for food; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ W Africa

Note ▶ The seeds are camphoraceous in taste.

Burkill 5, 2000; Dalziel 1937; Duke et al. 2003

 **Aframomum subsericum** (*Oliv. et Hanb.*) *K. Schum.*

Common Names ▶ alligator pepper; *German*: Alligatorpfeffer

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ W Africa

Note ▶ A smell of lemon.

Burkill 5, 2000

Afrostryax Perkins et Gilg - Styracaceae (Huaceae)

 **Afrostryax kamerunensis** *Perkins et Gilg*

Common Names ▶ Cameroon garlic tree; *German*: Kamerun-Knoblauchbaum

Usage ▶ local as garlic-like condiment, special of sauces

Parts Used ▶ seed, bark

Distribution ▶ tropical Africa: Cameroon, Gabon

Note ▶ Bark and seeds have a garlic taste.

Burkill 5, 2000; Neuwinger 1999; Walker 1952

 **Afrostryax lepidophyllus** *Mildbraet*

Common Names ▶ garlic bark (tree); *German*: Schuppenblättriger Knoblauchbaum

Usage ▶ spice, condiment

Parts Used ▶ bark, seed

Distribution ▶ tropical Africa: Cameroon, Congo, the Central Africa Republic, Zaire

Note ▶ Bark and seeds have a garlic taste.

Burkill 5, 2000; Milbread 1913; Neuwinger 1998; Sandberg/Cronlund 1982

 **Agaricus edodes** *Berk.*

➤ *Lentinus edodes* (*Berk.*) *Sing.*

Agastache Gronov. - Mexican Hyssop - Lamiaceae (Labiatae)

 **Agastache anisata** *hort.*

➤ *Agastache foeniculum* (*Pursh*) *Kuntze*

 **Agastache foeniculum** (*Pursh*) *Kuntze*

Synonyms ▶ *Agastache anisata* *hort.*, *Hyssopus anisatus* *Nutt.*, *Stachys foeniculum* *Pursh*

Common Names ▶ anise hyssop, anise mint, blue giant hyssop, fragrant giant hyssop, licorice mint; *French*: hysope anisée; *German*: Duftnessel, Anisysop

Usage ▶ spice, e.g. for cakes and sweets; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ N America: S Canada to the NC states of USA, Rocky Mountains, former Soviet Union (Crimea, Moldavia), S Finland

Cheers 1998; Erhardt et al. 2002; Hanelt 2001; Mazza/Kiehn 1992; Mikus et al. 1997; Nykänen et al. 1989; Schultze-Motel 1986; Small 1997; Svoboda 1995; Tucker 1986; Wiersoma/León 1999; Wilson et al. 1992

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 Agastache mexicana (Kunth) Lint. et Epling

Synonyms ► *Dracocephalum mexicanum* H.B.K., *Cedronella mexicana* (Kunth) Benth.

Common Names ► Mexican giant hyssop, lemon hyssop; *Chinese*: huo xiang; *French*: agastache; *German*: Mexikanische Duftnessel, Mexikanischer or Lemon Ysop; *Mexico*: toronjil; *Spanish*: totoji

Usage ► spice, flavoring

Parts Used ► leaf

Distribution ► Mexico; cultivated in N America

Cheers 1998; Erhardt et al. 2002; Hanelt 2001; Mikus/Schaser 1995; Ochoa/Alonso 1996; Omidbaigi/Sefidkon 2003; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Svoboda et al. 1995; Teuscher 2003; Tucker 1986

 Agastache rugosa (Fischer et C.A.Meyer) Kuntze

Synonyms ► *Cedronella japonica* Hassk., *Elsholtzia monostachys* H. Lévl. et Van., *Lophanthus rugosus* Fischer et C.A. Meyer

Common Names ► Chinese giant hyssop, Korean mint, wrinkled giant hyssop; *Chinese*: huo xiang; *German*: Koreanische Minze, Minz-Agastache, Runzlicher Ysop; *Japanese*: kawa-midori; *Korean*: bangah, paechohyang, pangaphul

Usage ► spice; **product**: essential oil (perfumery)

Parts Used ► leaf

Distribution ► E Siberia, Russian Far E, Korea, China, Japan, N Vietnam; introduced to N America after World War II, also cultivated in China

Note ► The essential oil contains more than 90% methyl chavicol.

Ahn/Yang 1991; Boo-Yong Lee et al. 2001; Charles et al. 1991; Cheers 1998; Dung et al. 1996; Hanelt 2001; Hee-Juhn Park et al. 2000; Hiller/Melzig 1999; Kim et al. 2001; Moon Jung Lee et al. 2001; NICBPB 1987; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Svoboda et al. 1995; Tae Hwan Kim et al. 2001; Teuscher 2003; Tucker 1986; Weyerstahl et al. 1992; Wiersoma/León 1999; Wilson et al. 1992

 Agathophyllum aromaticum (Sonn.) Willd.

► *Ravensaria aromatica* Sonn.

 Agathosma betulina Pillans

► *Barosma betulina* (Bergius) Bartl. et Wendl.

 Agathosma crenulata (L.) Pillans

► *Barosma crenulata* (L.)

 Agathosma serratifolia (Curtis) A.D. Spreeth

► *Barosma serratifolia* (Curtis) Will.

**Aglaia Lour. -
Meliaceae** **Aglaia affinis** Merr.

► *Aglaia odoratissima* Blume

 Aglaia heterophylla Merr.

► *Aglaia odoratissima* Blume

 Aglaia odorata Lour.

► *Aglaia odoratissima* Blume

 Aglaia odoratissima Blume

Synonyms ► *Aglaia affinis* Merr., *Aglaia heterophylla* Merr., *Aglaie odorata* Lour.

Common Names ► mock lime, orchid tree; *Chinese*: mi zan lau, mi sui lan, san yeh lan; *German*: Duft-Glanzbaum; *Indonesian*: pancal kidang, tanglu; *Japanese*: ju-ran, muran; *Malaysian*: chulan, ka-sai, telur belangkas, merlimau; *Thai*: prayong paa, sangkhriat

Usage ► flavoring of tea; **product**: essential oil

Parts Used ► flower

Distribution ► India, Indonesia: Sumatra, Java, Philippines, China

Note ▶ On Java a dwarf form (var. *microphylla* DC.) occasionally cultivated in gardens.

Artander 1960; Berger 2, 1950; Burkill 1966; Hanelt 2001; Heyne 1953; Corner 1988; Oyen/Dung 1999; Storrs 1997; Uphof 1968

Agrimonia L. - Agrimony - Rosaceae

 **Agrimonia eupatoria** L. *ssp. odorata* (Gouan) Hook.

Synonyms ▶ *Agrimonia procera* Wallr.

Common Names ▶ odour agrimony, cock ley bur, liverwort; *Arabic*: ghafith, terfaq; *French*: aigremoine gariot; *German*: Duft-Odermennig, Großer Odermennig; *Italian*: agrimonia; *Spanish*: agrimonia

Usage ▶ flavoring (rarely)

Parts Used ▶ leaf, herb

Distribution ▶ Germany to W Russia, rarely cultivated

Bremness 2001; Hanelt 2002; Heeger 1956; Hoppe 1949; Schönfelder 2001; Schultze-Motel 1986; Small 1997; Uphof 1968; Wyk et al. 2004

 **Agrimonia procera** Wallr.

▶ *Agrimonia eupatoria* L. *ssp. odorata* (Gouan) Hook.

Ajuga L. - Bugle - Lamiales (Labiatae)

 **Ajuga macrosperma** Wall.

Common Names ▶ bugle; *French*: petite consoude; *German*: Großsamiger Günsel; *Russian*: shibutschka dubhiza

Usage ▶ pot-herb

Parts Used ▶ herb

Distribution ▶ India: temperate and tropical Himalaya

Arora/Pandey 1996; Hager 4, 1992; Shen, X.Y. et al. 1993

 **Ajuga reptans** L.

Common Names ▶ creeped bugle; *French*: bugle ram-pante; *German*: Kriechender Günsel; *Russian*: shibutschka polsutschij

Usage ▶ pot-herb

Parts Used ▶ herb, leaf

Distribution ▶ Europe, Turkey, Caucasus, N Iran, Algeria, Tunisia; nat in N America

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993

 **Alaraia pinnatifida** Harvey

▶ *Undaria pinnatifida* (W.H. Harvey) W.F.R. Suringar

Alchemilla L. - Lady's Mantle - Rosaceae

 **Alchemilla conjuncta** Bab.

Common Names ▶ silver lady's mantle; *German*: Silber-Frauenmantel, Verwachsener Frauenmantel

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ Europe, France, Switzerland, SW Alps; native in England

Erhardt et al. 2002; Fleischhauer 2003

 **Alchemilla fissa** Günther et Schummel

Common Names ▶ *German*: Spaltblättriger Frauenmantel, Zerschlitzzter Frauenmantel

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ Europe: Spain, France, C Europe, Poland, Alps, Sudetenland

Erhardt et al. 2002; Fleischhauer 2003

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 Alchemilla splendens *Christ ex Favrat*

Common Names ► glittering lady's mantle; *German*: Schimmernder Frauenmantel

Usage ► pot-herb

Parts Used ► leaf

Distribution ► Europe: France, Switzerland, Alps, Jura

Erhardt et al. 2002; Fleischhauer 2003

 Alchemilla vulgaris *L.*

Common Names ► lady's mantle; *French*: alichimille, manteau de Notre-Dame; *German*: Gemeiner Frauenmantel, Sinau; *Italian*: alchemilla; *Russian*: manshetka; *Spanish*: pie de leon

Usage ► pot-herb

Parts Used ► leaf

Distribution ► C Europe, W Asia, E America

Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Hoppe 1, 1948; Koschtschejew 1990; Schönfelder 2001; Wyk et al. 2004

Aleurites J.R. Forst. et G. Forst. - Euphorbiaceae **Aleurites javanica** *Gand.*

► *Aleurites moluccana* (L.) Willd.

 Aleurites moluccana (L.) Willd.

Synonyms ► *Aleurites javanica* Gand., *Aleurites triloba* J.R. Forst. et G. Forst., *Jatropha moluccana* L., *Juglans camirium* Lour.

Common Names ► candle berry, candle nut, Indian walnut; *Chinese*: shi li zi; *French*: noix des Indes, noix de Bancoul, noix des Moluques; *German*: Kandeln, Bankuln, Kekunanuss, Kemiri, Kemiri-, Kerzen- or Lichternuss; *Hindi*: jangli akhrot; *Indonesian*: kemiri, miri, muncang; *Javanese*: kemiri; *Malaysian*: kemiri, kembiri, buah keras; *Laos*: kôk namz man; *Pilipino*: kami, lumbang, biao; *Portuguese*: noz da Índia; *Spanish*: calumbán, camirio,

lumban; *Thai*: phothisat, kue-ra, purat, mayao; *Vietnamese*: cây lai

Usage ► spice; before used the seeds are roasted, specially for soups and sauces

Parts Used ► seed

Distribution ► India, China, SE Asia, Polynesia, New Zealand, origin. Malaysia; widely cultivated in the Tropics

Note ► Before being used the seeds must be roasted. Raw seeds are poisonous. It is an indispensable spice in Indonesian cuisine.

Blank R.J. et al. 1997; Engelbeen 1946; Erhardt et al. 2002; Foster 1962; Guzman/Siemonsma 1999; Hanelt 2001; Seidemann 1993; Seidemann/Siebert 1987; Staesche 1972; Strauß 1969c; Täufel et al. 1993; Wealth of India 1, 1948; Wiersoma/León 1999; Zeven/de Wet 1982

 Aleurites triloba *J.R. Forst. et G. Forst.*

► *Aleurites moluccana* (L.) Willd.

 Alga marina *Lam.*

► *Zostera marina* L.

Alliaria Heist. ex Fabr. - Brassicaceae (Cruciferae) **Alliaria officinalis** *Andr. ex M. Bieb.*

► *Alliaria petiolata* (M. Bieb.) Cavara ex M. Bieb.

 Alliaria petiolata (M. Bieb.)
Cavara et Grande ■

Synonyms ► *Alliaria officinalis* Andr. ex M. Bieb., *Sisymbrium alliaria* Scop.

Common Names ► garlic mustard, hedge garlic, Jack-by-the-hedge, onion nettle; *Arabic*: hashisha thaw-miyah; *French*: alliairé; *German*: Lauchkraut, Knoblauchsrauke, Lauchhederich; *Italian*: agliaria, alliaria; *Russian*: tschesnotschnik, tschesnotschniza, tschesnotschnaja trawa, lesnoj tschesnok; *Spanish*: erísimo



■ **Alliaria petiolata**, flowering

Usage ► pot-herb, condiment

Parts Used ► fresh and dried leaves

Distribution ► N Africa, temperate Asia, India, E Europe, SE and SW Europe, native elsewhere

Aichele/Schwegler 3, 1995; Arora/Pandey 1996; Bois 1934; Bremness 2001; Davidson 1999; Dudtscheko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Hiller/Melzig 1999; Pochljobkin 1974, 1977; Schönfelder 2001; Seidemann 1993c, 1995a; Seidemann/Siebert 1987; Täufel et al. 1993; Tucker 1986; Uphof 1968; Wiersema/León 1999

Alliaria wasabi Prantl

► *Wasabi japonica* (Miq.) Matsum.

Allium L. – Garlic, Leek, Onion - Alliaceae (Liliaceae)

Abraham et al. 1976; Bernhardt 1970; Block 1985, 1992; Block et al. 1992 a, b; Brewster 1994; Burba/Galmarini 1997; Carson 1987; Davis 1992; Fenwick/Hanley 1985/1986; Hager 4, 1992; Hanelt 1994, 2001; Helm 1956; Herrmann 1995; Jones/Mann 1963; Maggioni et al. 2001; Mathew 1996; Rabinowitch/Brewster 1990; Rabinowitch/Currah 2002; Schwartz/Mohan 1994; Seidemann 1993c; Täufel et

al 1993; Vvedensky 1944; Whitaker 1976; Widder/Sabater 2002; Woodward 1996; Xiao-Jia et al. 1994

Allium altaicum Pall.

Synonyms ► *Allium ceratophyllum* Bess. & Ledeb., *Allium microbulbum* Prokh., *Allium sapidissimum* Hedw., *Allium saxatile* Pall.

Common Names ► Altai onion; *German*: Altai-Zwiebel, Sibirische Zwiebel; *Russian*: altajskij luk, sibirskij dinkij luk, kamennij luk, gorowoj luk, sontschina, mongol'skij luk, luk altajskij

Usage ► spice

Parts Used ► bulb

Distribution ► Altai, mountains of S Siberia and Mongolia to the Transbaical region, SE Kazakhstan, NW China

Dudtschenko et al. 1989; Hanelt 2001; Pochljobkin 1974, 1977; Schultze-Motel 1986; Täufel et al. 1993; Zeven/de Wet 1982

Allium ampeloprasum L.

► *Allium ampeloprasum* L. var. *ampeloprasum*

Allium ampeloprasum L. var. **ampeloprasum**

[or Great-Headed Garlic Group]

Synonyms ► *Allium ampeloprasum* L., *Allium holmense* Mill., *Allium lineare* Mill., *Porrum ampeloprasum* (L.) Mill.

Common Names ► great round-headed garlic, levant garlic, wild leek, leek; *Arabic*: tum-zu el-raas; *Chinese*: da tou Suan; *Dutch*: wilde prei, wild look; *French*: ail d'Orient, ail à cheval, faux poireau, poireau d'été, petit oignon; *German*: Acker-Knoblauch, Sommer-Knoblauch, Pferde-Knoblauch, Weinlauch; *Italian*: porrandello, porraccio, porro selvatico; *Portuguese*: alho porro bravo; *Russian*: luk shemtschushnuj, luk vinogradnji; *Spanish*: cebollino, puerro agreste, puerro silvestre

Usage ► spice

Parts Used ► bulb, clove, leaf

Distribution ► Greece, Russia, Near East, Middle East:

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Iran, NW India, Transcaucasus, Turkey; SE Asia, Mexico, Chile, USA, N Africa, also cultivated

Note ▶ The plant has a strong garlic-like smell.

Aichele/Schwegler 5, 1996; Blancke 2000; Cheers 1998; Davidson 1999; Erhardt et al. 2002; Fattorusso et al. 2002; Hager 4, 1992; Hanelt 2001; Hepper 1992; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Allium ampeloprasum L. var. porrum (L.) J. Gray

▶ *Allium porrum* L.

 Allium angolense Baker

Common Names ▶ African onion, African shallot;
French: echalotte d'Angole, echalotte d'Afrique tropicale; *German*: Afrikanische Zwiebel, Angolanische Zwiebel; *Russian*: luk angol'skij

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ Africa: Angola, Congo, Gabun, Zaire, also cultivated

Schultze-Motel 1986; Teuscher 2003

 Allium anguinum Bubani

▶ *Allium victoralis* L.

 Allium angulosum Lour.

▶ *Allium ramosum* L.

 Allium angulosum L.

Common Names ▶ edged garlic; *German*: Kantiger Lauch

Usage ▶ spice

Parts Used ▶ bulb, leaf

Distribution ▶ Europe, Siberia

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993

 Allium ascalonicum L.

▶ *Allium cepa* L. var. *ascalonicum* Baker

 Allium ascalonicum auct. non L

▶ *Allium cepa* L. var. *ascalonicum* Baker

 Allium bakeri Hoop. non Regel

▶ *Allium fistulosum* L.

 Allium bakeri Regel

▶ *Allium chinense* G. Don

 Allium bouddhae O. Debeaux

▶ *Allium fistulosum* L.

 Allium canadense L.

Synonyms ▶ *Allium continuum* Small; *Allium mutabile* Mich.

Common Names ▶ Canada onion, American wild onion;
Cuban: ajo montaña, ajo porro; *German*: Kanadische Zwiebel

Usage ▶ spice (rarely), especially by the Cheyenne Indians

Parts Used ▶ bulb

Distribution ▶ Canada; cultivated in Cuba

Note ▶ Perhaps also taxonomic derivatives of the species cultivated in Cuba.

Hanelt 2001; Small 1997

 Allium carinatum L.

Common Names ▶ keeled garlic; *German*: Gekielter Lauch

Usage ▶ spice

Parts Used ▶ leaf, bulb

Distribution ▶ C Europe

Note ▶ The ssp. *carinatum* and ssp. *pulchellum* (G. Don) Bonn. et Layens (nice garlic; *French*: ail à carène élégant; *German*: Schöner Lauch are only rarely spreaded and used.

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993



Allium cepa L. var. ascalonicum Baker ■

Synonyms ▶ *Allium ascalonicum* auct. non L.

Common Names ▶ eschalot, shalott, Spanish garlic;

Dutch: esjalot; *French*: ail stérile, échalotte, ciboule oignon patate, oignon sous terre; *German*: Askalonzwiebel, Aschlauch, Batatenzwiebel, Eschlauch, Frühlingszwiebel, Frühlingslauch, Kartoffelzwiebel, Klöben, Levantelauch, Schalotte, Schlotte, Syrische Zwiebel; *Hindi*: kanda lasum; *India*: gundhun; *Indonesian*: bawang erah; *Italian*: scalogno; *Malaysian*: bawang merah; *Pilipino*: sibuyas tagalog; *Portuguese*: cebolha roxa; *Russian*: luk nemezki, luk schalot; *Spanish*: chalote, ascalonia, ascaloña; *Thai*: horm daeng, horm lek; *Vietnamese*: canh kho, canh ieu

Usage ▶ spice; seeds for flat bread and curry powder

Parts Used ▶ bulb, seed

Distribution ▶ only cultivated

Bärtels 1997; Bendel 2002; Blancke 2000; Bois 1934; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Fattorusso et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Hutton 1989; Körber-Grohne 1989; Melchior/Kastner 1974; Pochljobkin 1974, 1977; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Teuscher 2003; Tindall 1983; Vogel 1995a



Allium cepa L. – Cepa-Group (Common Onion Group)



Allium cepa L. var. cepa

Common Names ▶ onion, bulb onion, garden onion, potato onion, Spanish onion; *Arabic*: bas(s)al, besla; *Chinese*: hsieh pai, hu cong, xie ba, yang cong, yang ts'ung; *Dutch*: ui; *French*: ciboule, oignon; *German*: Küchenzwiebel, Sommerzwiebel, Speisewiebel, Rams, Zip(p)eln, Zipolle; *Hindi*: piyaz,



■ **Allium cepa var. ascalonicum, aerial onions**

pyaj; *Italian*: cipolla; *Japanese*: atasugi, tamanegi; *Korean*: okpha, tunggulpha, yangpha; *Malaysian*: bawang; *Pilipino*: lasona, sibuyas; *Portuguese*: cebola; *Russian*: luk reptschatyj; *Sanskrit*: palandu, durandha; *Spanish*: cebolla; *Thai*: yai; *Vietnamese*: khan ko, hanh la

Usage ▶ spice and food (vegetable)

Parts Used ▶ bulb

Distribution ▶ only cultivated

Adam et al. 2000; Aichele/Schwegler 5, 1996; Aksoy 1983; Bärtels 1997; Bendel 2002; Block 1985, 1992; Boelens et al. 1971; Bois 1934; Bremness 2001; Brodnitz et al. 1969; Carson 1987; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Faheid 1998; Farkas et al. 1992; Farrell 1985; Fossen et al. 1998; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Järvenpää et al. 1998; Kaak et al. 2004; Koch 1994; Koderä et al. 2002; Körber-Grohne 1989; Laul et al. 1984; Lewington 1990; Marotti/Piccaglia 2002; Martine 1980; Martin-Lagos et al. 1992; Matheis/Lösung 1999; Mazza et al. 1980; Melchior/Kastner 1974; Nefisa et al. 1994; Patil et al. 1995; Peter 2001; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Raine 1978; Rosengarten 1969; Roth/Kormann 1997; Saini/Davis 1969; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Sfikas 1994; Sharma 2003; Täufel et al. 1993; Teuscher 2003; Tindall 1983;

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Uhl 2000; Uphof 1968; Villamara et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

 Allium cepa L. ssp. vivipara Metzg. Alef.

➤ *Allium x proliferum* (Moench) Schrad. ex Willd.

 Allium cepa L. var. cepa

➤ *Allium cepa* L. – Cepa-Group.

 Allium cepa L. var. proliferum (Moench)
Targ.-Tozz

➤ *Allium x proliferum* (Moench) Schrad. ex Willd.

 Allium cepa L. var. sylvestre Regel

➤ *Allium oschaninii* B. Fedtsch.

 Allium cepa L. var. viviparum (Metzg.) Alef.

➤ *Allium x proliferum* (Moench) Schrad. ex Willd.

Allium cepa L. – Every-ready onion Group

 Allium cepa L. var. perutile Stearn

Common Names ▶ Ever-ready onion

Usage ▶ spice

Parts Used ▶ bulb, leaf

Distribution ▶ cultivated in France

Chopra et al. 1956; Hanelt 1985, 2001

 Allium ceratophyllum Bess. & Ledeb.

➤ *Allium altaicum* Pall.

 Allium cernuum Roth.

Common Names ▶ lady's leek, nodding onion, wild onion; *French*: ail penché; *German*: Sommerzwiebel

Usage ▶ spice, flavoring

Parts Used ▶ bulb, leek

Distribution ▶ Canada, USA: Florida, California, Mexico

Cheers 1998; Sánchez-Monge/Parellada 1981; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999

 Allium chinense Maxim.

➤ *Allium ramosum* L.

 Allium chinense G. Don

Synonyms ▶ *Allium bakeri* Regel, *Allium splendens* Miq., *Allium triquetrum* Lour.

Common Names ▶ Baker' garlic, Chinese chives, Chinese onion, Chinese scallion, Japanese scallion, Oriental onion; *Arabic*: tum rlxhabazeen; *Chinese*: jiao tou, qiao tou, xie; *French*: echalotte chinoise; *German*: Chinesischer Schnittlauch, Chinesische Zwiebel, Schnittknoblauch; *Japanese*: rakkyō; *Korean*: junggukpuchu, yompuchu; *Portuguese*: chalota chinesa; *Spanish*: chalote chinesa; *Thai*: mee yoi

Usage ▶ spice (pickles); **product**: essential oil

Parts Used ▶ bulb

Distribution ▶ China, cultivated elsewhere, specially Asia, also cultivated in SE Asia, Hawaii, Australia, California, Cuba

Arora/Pamdey 1996; Davidson 1999; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Kameoka et al. 1984; Kumar 2003; Mann/Stearn 1960; Peng et al. 1996; Pino et al. 2001; Schultze-Motel 1986; Sedemann 1993c; Siemonsma/Piluek 1993; Small 1997; Täufel et al. 1983; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Allium consanguineum Kunth

Synonyms ▶ *Allium stracheyi* Baker

Common Names ▶ *German*: Blutsverwandter Lauch; *Hi-*

malayas: dunna, pharan; *India*: chollang (NE India)

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ W, C Himalayas, N India

Arora/Pandey 1996; Hanelt 2001; Negi/Plant 1992; Sharma et al. 1997



Allium continuum *Small*

▶ *Allium canadense* L.



Allium ellipticum *Wall.*

▶ *Allium victorais* L.



Allium fistulosum L. ■

Synonyms ▶ *Allium bakeri* Hoop. non Regel; *Allium bouddhae* O. Debeaux

Common Names ▶ cibol, Japanese bunching onion, Japanese leek, spring onion, silverskin onion, Welsh onion; *Arabic*: bassal el-mustatere, bassal el-ankudy; *Chinese*: bai, cong, mu ts'ung, ts'ung; *Dutch*: grof bieslook; *French*: ciboule, ail fistuleux, oignon d'hiver; *German*: Schnitzzwiebel, Winterzwiebel, Heckenzwiebel, Hohllauch, Jakobslauch, Klöben, Silberzwiebel; *Indonesian*: aun bawang; *Italian*: cipoletta, cipolla d'inverno; *Japanese*: negi; *Korean*: pha; *Malaysian*: daun bawang; *Pilipino*: sibuyasna mura; *Russian*: kitajskij luk, luk batun, luk tatarka; *Spanish*: cebolleta, cebolleta francesa, cebollino inglés; *Thai*: ton horm; *Vietnamese*: hanh, hombua, thong bach

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leek

Distribution ▶ only cultivated, probable origin in Asia

Aichele/Schwegler 5, 1996; Blancke 2000; Bois 1934; Bremness 2201; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Hager 4, 1992; Hanelt 2001; Helm 1956; Hutton 1998; Kameoka et al. 1984; Körber-Grohne 1898; Kuo et al. 1990; Leung 1991; Lück 2004; Melchior/Kastner 1974; Pochljobkin 1974, 1977; Pruthi 1976; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siemonesma/Piluek 1993; Täufel et al. 1983; Teuscher 2003; Tindall



■ **Allium fistulosum**, flowering

1983; Tucker 1986; Uphof 1968; Vogel 1995b; WHO Manila 1990; Wiersema/León 1999; Zeven/de Wet 1982



Allium giganteum *Regel*

Common Names ▶ giant onion; *French*: ail géant de l'Himalaya; *German*: Riesen-Zwiebel

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ in the former Soviet Union, Himalayas, C Asia

Cheers 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Hanelt 2001; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1997



Allium grayi *Regel*

Common Names ▶ Chinese garlic, Japanese garlic, water garlic; *Chinese*: siao suan, xiao, xie bai, yeh-suan, yeh-tsin-tsai; *French*: ail du Japon; *German*: Chinesischer Knoblauch, Japanischer Knoblauch; Wasserknoblauch; *Italian*: aglio giapponense;

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Japanese: no-biru; *Korean*: tallae; *Mongolian*: zer-leg sarmis; *Portuguese*: alho do Japão; *Russian*: luk krupnotytschinkovyj; *Spanish*: ajo del Japon

Usage ▶ spice, flavoring (sporadically)

Parts Used ▶ bulb, leek

Distribution ▶ E Asia, China, Mongolia; Russia, Far and Middle East

Helm 1956; Ho JongYoul et al. 2001; Peng et al. 1995; Schultze-Motel 1986; Täufel et al. 1983; Teuscher 2003; Wiersema/León 1997



Allium holmense Mill.

➤ *Allium ampeloprasum* L. ssp. *ampeloprasum*



Allium hookeri Thwaites

Synonyms ▶ *Allium wallichii* Regel, *Allium tsoongii* Wang et Tang

Common Names ▶ Hooker garlic; *German*: Hooker-Zwiebel; *Chinese*: kuan ye jiu; *Thai*: su

Usage ▶ flavoring for soups

Parts Used ▶ leaf

Distribution ▶ E Himalayas, Tibet, SW China, Assam, N Thailand, Sri Lanka

Note ▶ The fleshy root is used as a vegetable; the cultivated forms are seed-sterile.

Hanelt 1994, 2001; Kumar 2003; Sharma et al. 1997



Allium karataviense Regel

Common Names ▶ *French*: ail du Turkestan; *German*: Blauzungentrauch, Turkestanische Zwiebel

Usage ▶ spice

Parts Used ▶ bulb, leaf

Distribution ▶ C Asia, especially Turkestan

Erhardt et al. 2002; Hanelt 2001



Allium kunthii G. Don

Synonyms ▶ *Allium longifolium* (Kunth) Humb., *Schoenoprasum longifolium* Kunth

Common Names ▶ Mexican onion; *German*: Mexikanische Zwiebel

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ N Mexico, New Mexico; Texas

Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993



Allium kurrat Schweinf. ex K. Krause

[or *Allium kurrat* Group]

Common Names ▶ Egypt leek, salad leek; *Arabic*: kurrat, kurrat baladi, kurrat nabati; *French*: kurrat; *German*: Ägyptischer Lauch, Kurratlauch, Arabischer Schnittlauch, Salatlauch; *Japanese*: kurrat nabati; *Portuguese*: kurrat; *Russian*: luk kurrat, luk salat-nji; *Spanish*: kurrat

Usage ▶ spice, condiment, food (vegetable)

Parts Used ▶ leaf

Distribution ▶ cultivated in N Africa: Egypt, also in Arabia and Near and Middle East: Palestine

Davidson 1999; Hanelt 2001; Hepper 1992; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982



Allium lacteum Sm.

➤ *Allium neopolitanicum* Cyr.



Allium latissimum Prokh.

➤ *Allium victoralis* L.



Allium ledebourianum Schult.

Common Names ▶ ledebour onion; *German*: Ledebour-Zwiebel

Synonyms ▶ *Allium uliginosum* Ldb.

Usage ▶ spice, condiment

Parts Used ▶ bulb, leaf

Distribution ▶ Far East, Russia; Siberia, Japan

Hanelt 2001; Uphof 1968

Allium lineare *MilL.*

➤ *Allium ampeloprasum* L. ssp. *ampeloprasum*

Allium longifolium (*Kunth*) *Humb.*

➤ *Allium kunthii* G. Don

Allium longicuspis *Regel*

[*Longicuspis* Group]

Common Names ▶ *German*: Spitzer Lauch; *Russian*: luk dlinno-ostrokonetschi

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ C, W Asia, in the former Soviet Union; since 1952 cultivated in Kazakhstan

Aichele/Schwegler 5, 1996; Blancke 2000; Dudtschenko et al. 1989; Hanelt 2001; Hepper 1992; Schultze-Motel 1986; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999; Zeven/de Wet 1982

Allium macrostemon *Bunge*

➤ *Allium grayi* *Regel*

Allium margaritaceum *Moench*

➤ *Allium scorodoprasum* L.

Allium microbulbum *Prokh.*

➤ *Allium altaicum* *Pall.*

Allium microdictyum *Prokh.*

➤ *Allium victoralis* L.

Allium moly L.

Common Names ▶ lily leek, moly, yellow onion; *French*: ail doré; *German*: Goldlauch, Molyzwiebel, Spanischer Lauch

Usage ▶ spice

Parts Used ▶ leek, bulb

Distribution ▶ SW Europe: Spain, SW France, N Africa; also frequently cultivated in gardens as an ornamental plant

Note ▶ This plant is not identical with the moly-plant of antiquity.

Bärtels 1997; Cheers 1998; Erhardt et al. 2002; Koch 1995; Seidemann 1992b

Allium mutabile *Mich.*

➤ *Allium canadense* L.

Allium neglectum *Wender*

➤ *Allium scorodoprasum* L.

Allium neopolitanum *Cyr.*

Synonyms ▶ *Allium cowanii* Lindl., *Allium lacteum* Sm., *Allium sulcatum* DC.

Common Names ▶ Daffodil garlic, naples garlic, false garlic, flowering onion, Neapolitan garlic; *French*: ail de Naples; *German*: Neapel-Zwiebel, Neapolitanische Zwiebel; *Mexico* (*Nahua*): xonacat

Usage ▶ spice, condiment

Parts Used ▶ bulb, leaf

Distribution ▶ Europe: Iberia, Turkey; C Mexico, grown as an ornamental plant in several warm temperate countries; N Africa, W Asia

Bärtels 1997; Cheers 1998; Erhardt et al. 2002; Hanelt 2001; Wiersema/León 1997

Allium nigrum L.

Common Names ▶ black garlic, broad leaf garlic; *German*: Schwarzer Lauch, Zwiebelreicher Lauch

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Usage ▶ spice

Parts Used ▶ bulbil, leaf

Distribution ▶ Europe, Turkey, Syria, N Africa, W Asia
SE Europe, SW Europe

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993; Wiersema/León 1997



Allium nutans L.

Common Names ▶ *German*: Nickender Lauch; *Russian*: slizun

Usage ▶ spice

Parts Used ▶ young leaves

Distribution ▶ Siberia, from S Ural to the Yenissei and Kazakhstan

Erhardt et al. 2002; Hanelt 1994, 2001



Allium obliquum L.

Common Names ▶ oblique onion, twisled leaf; *German*: Schiefe Zwiebel, Ziegenlauch; *Mongolian*: sarmisan songino; *Russian*: dikij tschesnok, luk kosoj

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ Romania, S Europe, Russia, SW and C Siberia, Kazakhstan, Uzbekistan; NW Mongolia, NW China; cultivated in W Siberia

Note ▶ The plant is a wild substitute for true garlic.

Hanelt 2001; Mansfeld 1986; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Uphof 1968



Allium ochotense Prokh.

▶ *Allium victoralis* L. ssp. *plytyphyllum*



Allium odorum L.

▶ *Allium ramosum* L.



Allium odorum auct. non L.

▶ *Allium tuberosum* Rottl. ex Spreng.



Allium oleraceum L.

Common Names ▶ field garlic; *German*: Feldzwiebel, Kohllauch, Rosslauch

Usage ▶ spice, flavoring

Parts Used ▶ bulb, leaf

Distribution ▶ Europe, especially Iberia; Caucasus, also naturalized elsewhere in temperate regions

Aichele/Schwegler 5, 1996; Dudtschenko et al 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Schnelle 1999; Täufel et al 1993; Uphof 1968



Allium ophioscorodon Link

▶ *Allium sativum* var. *ophioscorodon* (Link) Döll



Allium oschaninii B. Fedtsch.

Synonyms ▶ *Allium cepa* L. var. *sylvestre* Regel

Common Names ▶ *German*: Oschanin-Zwiebel; *Russian*: luk oschanina

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ Tajikistan, N, W and C Afghanistan, NE Iran, Uzbekistan

Note ▶ According to molecular and isoenzyme data the cultivar group of French shallots belong to the species.

Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999; Zeven/de Wet 1982



Allium paradoxum (M. Bieb.) G. Don

Common Names ▶ few-flowered leek; *German*: Seltsamer Lauch

Usage ▶ spice

Parts Used ▶ bulb, leaf

Distribution ▶ EC Europe, Caucasus, N Iran, C Asia, W Asia, native elsewhere

Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Loch 1993; Wiersema/León 1997

Hanelt 1994, 2001; Schultze-Motel 1986; Seidemann 1993c; Teuscher 2003

Allium porrum L.

[or Leek Group respectively Porrum Group]

Synonyms ▶ *Allium ampeloprasum* L. var. *porrum* (L.) J. Gay, *Porrum commune* Rchb., *Porrum sativum* Mill.

Common Names ▶ leek, common leek, purret; *Arabic*: kourrath; *French*: poireau, porreau; *German*: Porree, Breitlauch, Suppenlauch, Welschlauch, Winterlauch; *Hindi*: vilayaiti lason; *India*: paru; *Indonesian*: bawang pere; *Italian*: porro; *Japanese*: nira-negi; *Portuguese*: alho francês, alho porro; *Russian*: luk porej; *Spanish*: ajo porro, ajo puerro, puerro;

Usage ▶ spice (greens), and food (vegetable)

Parts Used ▶ shaft of the plant, leaf

Distribution ▶ Egypt, Mediterranean region, cultivated in many European countries, especially in W Europe, N America

Aichele/Schwegler 5, 1996; Bendel 2002; Bonnet 1976; Bremness 2001; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Fat-torusso et al. 2000, 2001; Hager 4, 1992; Hanelt 1994, 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Körber-Grohne 1989; Pochljobkin 1994, 1977; Schulz et al 1999; Schultze-Motel 1986; Seidemann 1993c; Siemonesma Piluek 1993; Starke/Herrmann 1976; Stephanie/Baltes 1991, 1992; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982

Allium porrum L. var. *sectivum* F.H. Lueder

[or Pearl-Onion Group]

Common Names ▶ pearl onion, sand leek, Spanish garlic; *German*: Natternknoblauch, Perllauch, Perlzwiebel, Rockenbole, Rokambole, Schlangenglauch, Silberzwiebel

Usage ▶ spice and for pickling

Parts Used ▶ small bulb and bulblet

Distribution ▶ cultivated in Germany, the Netherlands, Italy

Note ▶ The Indonesian prei anak cultivars also belong to this group.

Allium x proliferum (Moench) Schrad. ex Willd.

Synonyms ▶ *Allium cepa* L. var. *proliferum* (Moench) Targ.-Tozz., *Allium cepa* L. ssp. *vivipara* Metzg., *Allium cepa* L. ssp. *viviparum* (Metzgt.) Alef., *Allium wakegi* Araki; *Cepa prolifera* Moench

Common Names ▶ Beltsville bunching onion, Catawissa onion, Egyptian onion, top onion, tree onion, Wakegi onion; *French*: oignon d'Egypte, oignon catawissa; *German*: Ägyptische Zwiebel, Catawissazwiebel, Etagenzwiebel, Luftzwiebel; *Japanese*: wakegi; *Russian*: luk mnogojarusnyj

Usage ▶ spice

Parts Used ▶ inflorescence bulbils, bulb, leaf

Distribution ▶ Altai, N Caucasus, W Siberia; only cultivated

Note ▶ Only cultivated; a hybrid between *A. fistulosum* and *A. cepa*.

Bärtels 1997; Davidson 1999; Faray et al 1981; Hager 4, 1992; Hanelt 2001; Lück 2004; Pochljobkin 1974, 1977; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Teuscher 2003; Zeven/de Wet 1982

Allium pskemense B. Fedtsch

Common Names ▶ *German*: Pskemenser Zwiebel; *Russian*: pskemschij luk, pies-ansyr; gornyj luk

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ former Soviet Union: Tien-Schan, Taskentian, Alatau; C Asia

Dudtschenko et al. 1989; Hanelt 2001; Pochljobkin 1974, 1977; Wiersema/León 1999; Zeven/de Wet 1982

Allium ramosum L.

Synonyms ▶ *Allium angulosum* L., *Allium chinense* Maxim., *Allium odorum* L., *Allium tartaricum* L.f., *Allium uliginosum* G. Don

Common Names ▶ Chinese chive, Chinese leek, fragrant

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garlic, fragment flowered garlic; *Chinese*: chiu kieu, feng pen; *French*: ail civette de Chine, ail chinoise; *German*: Ästiger Lauch, Chinalauch, Chinesischer Lauch, Duftlauch; *Japanese*: nira; *Malaysian*: kuchai; *Korean*: puchu; *Russian*: luk dutschistyj; *Vietnamese*: rau he;

Usage ▶ spice, flavoring

Parts Used ▶ leaf (leek)

Distribution ▶ S Siberia, Mongolia, former Soviet Far East, Korea, N, NE and NW China, native Japan and other countries in E and S Asia, also cultivated

Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993; Teubner 2001; Uphof 1968; WHO Manila 1990; Zeven/de Wet 1982



Allium rotundum L.

▶ *Allium scorodoprasum* L. ssp. *rotundum* (L.) W.T. Stearn



Allium sapidissemum Hedw

▶ *Allium altaicum* Pall.



Allium sativum L.

[*Sativum* Group]

Synonyms ▶ *Porrum sativum* (L.) Rchb.

Common Names ▶ common garlic, garlic; *Arabic*: thom, thum, tòm; *Chinese*: da suan; *Dutch*: knoflook; *French*: ail, ail blanc, ail ordinaire; *German*: Knoblauch, Knobloch, Knofel; *Hindi*: lahsan, lahsun, lasan; *Indonesian*: bawang putih; *Italian*: aglio, aglio domestico; *Japanese*: ninniku; *Korean*: manul; *Malaysian*: bawang puteh; *Mexican*: xiito ajo; *Pilipino*: bawang; *Portuguese*: alho; *Russian*: tschesnoik; *Sanskrit*: lasuna, rasona; *Spanish*: ajo; ajo común; *Thai*: krathiem; *Vietnamese*: toí, dai toan, sluon

Usage ▶ spice; **product**: essential oil

Parts Used ▶ bulb

Distribution ▶ widely grown in Eurasia and America,

perhaps originating from the Mediterranean region, cultivated world-wide

Note ▶ The People's Republic of China (N China) is the greatest exporter of garlic in the world.

Aichele/Schwegler 5, 1996; Balcke 2000; Bärtels 1997; Block 1985, 1992; Bocchini et al. 2001; Bois 1934; Boss-Teichmann/Richter 2002; Bremness 2001; Brodnitz et al. 1971; Carson 1987; Cheers 1998; Davidson 1999; Duke et al. 2003; Edris et al. 2002; Farnsworth/Bunyaprophatsara 1992; Farrell 1985; Gaßmann 1992; Güntzel-Lingner 1941; Gyung Hdon et al. 1999a, b; Hager 4, 1992; Hamon 1987; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Hutton 1998; Keusgen 2001; Koch 1995, 1996; Koch/Hahn 1988; Konvička 1983; Konvička/Würfl 2001; Larkcom 1991; Lewington 1990; MacCarthy 2002; Madamba et al. 1995; Mazza et al. 1992; Mazza/Oomah 2000; McElney et al. 1991; Melchior/Kastner 1974; Morris/Mackley 1999; Newall et al. 1996; Peter 2001; Pino et al. 1991; Pochljobkin 1974, 1977; Pschyrembel 1998; Reuter 1986; Rosengarten 1969; Roth/Kormann 1997; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Siemonsma/Piluek 1993; Siewek 1990; Singh/Tiwari 1995; Sing et al. 1998; Small 1997; Starke/Herrmann 1976; Täufel et al. 1993; Teleky-Vámosy/Petró-Turza 1986; Teuscher 2003; Tokitomo/Kobayashi 1992; Tucker 1986; Uphof 1968; Villamara et al. 1994; WHO 1990; Weinberg et al. 1993a; Wyk et al. 2004; Yu et al. 1989; Zeven/de Wet 1982



Allium sativum L. var. ophioscorodon (Link)

Döll

Synonyms ▶ *Allium ophioscorodon* Link

Common Names ▶ garden rocambole, giant garlic, serpent garlic; *French*: ail rocambole; *German*: Perlzwiebel, Rockenbolle, Schlangen(knob-)lauch, Natternknoblauch; *Italian*: aglio d'India

Usage ▶ spice

Parts Used ▶ bulb, leaf

Distribution ▶ only cultivated

Balcke 2000; Davidson 1999; Ehrhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hanelt/Ohle 1978; Mansfeld 1986; Melchior/Kastner 1974; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Wiersema/León 1997



Allium sativum L. var. peginense (Prokh.)

Maekawa apud Makino

Common Names ▶ Peking garlic; *German*: Peking-Knoblauch; *Korean*: manul

Usage ▶ spice

Parts Used ▶ bulbil

Distribution ▶ China, Japan, cultivated in gardens

Mansfeld 1986; Teuscher 2003

Allium saxatile *Pall.*

➤ *Allium altaicum* *Pall.*

Allium schoenoprasum *L.*

Synonyms ▶ *Allium montanum* Schrank, *Allium raddeanum*, *Allium sibiricum* L., *Cepa schoenoprasa* (L.) Moench, *Schoenoprasum vulgare* Fourr.

Common Names ▶ chive, chive garlic, cive, civet; *Arabic*: bassal el-shiffee; *Dutch*: bieslook; *French*: civette, ciboulette, petit porreau, cipoletta, cipollina, fausse échalote; *German*: Binsenlauch, Graslauch, Schittling, Schnittlauch, Suppenlauch; *Italian*: cipoletta, cipollina; *Japanese*: asatsuki, ezonagi; *Portuguese*: cebolinha francesa, cebolleta, cebollina común; *Russian*: reseanez, skoroda, schnittluk; *Spanish*: cebollino, cebollino francés, cebolleta

Usage ▶ spice

Parts Used ▶ fresh leaf, dry or deep-freezing

Distribution ▶ temperate Asia, India, Europe, N America, also cultivated

Note ▶ This type is a very variable species.

Aichele/Schwegler 5, 1996; Blancke 2000; Bois 1934; Bremness 2001; Cheers 1998; Davidson 1999; Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Hashimoto et al 1983; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Kameoka/Hasimoto 1983; Leino 1992; Pochljobkin 1974, 1977; Pruthi 1976; Rosengarten 1969; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Starke/Herrmann 1976; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Tyndall 1983; Uphof 1968; Villamar et al. 1994; Wahlroos 1965; Wiersema/León 1999; Zeven/de Wet 1982

Allium schoenoprasum *L. var. sibiricum* (L.) Garcke

Common Names ▶ alpine chives, large chives; *German*: Alpen-Schnittlauch, Sibirischer Schnittlauch

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Europe, Siberia

Erhardt et al. 2002; Hanelt 2001; Täufel et al. 1993;

Allium scorodoprasum *L.*

Synonyms ▶ *Allium margaritaceum* Moench, *Allium neglectum* Wender., *Porrum scorodoprasum* (L.) Rchb.

Common Names ▶ sand leek, giant garlic, Spanish garlic rocambol; *Arabic*: tum el-emlak; *Chinese*: hu suan, ta suan, xiao suan; *Dutch*: slangenlook; *French*: ail rocambol, oignon d'Espagne, rocambol; *German*: Falscher Schlangen-(Knob-)lauch, Graslauch, Rockenbolle, Sandlauch, Wilder Porree; *Italian*: aglio d'India, aglio romana, rocambola; *Portuguese*: alho grosso de Espanha, alho rocambol; *Russian*: pritschecnotschnyj, luk ro-kambol'; *Spanish*: ajo pardo, rocambola

Usage ▶ spice

Parts Used ▶ bulb, leaf

Distribution ▶ C, S Europe, Caucasus, Turkey, Asia minor

Aichele/Schwegler 5, 1996; Bremness 2001; Davidson 1999; Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Zeven/de Wet 1982

Allium scorodoprasum *L. ssp. rotundum* (L.) W.T. Stearn

Synonyms ▶ *Allium rotundum* L.

Common Names ▶ sand and leek, giant garlic, purolflower garlic, Spanish garlic; *German*: Graslauch, Rundköpfiger Lauch

Usage ▶ spice (sporadically)

Parts Used ▶ leaf

Distribution ▶ N, C, E and SE Europe, Turkey, Levante, Caucasus, N Iran

Note ▶ In E Anatolia with other plants for the preparation of special herbal cheese.

Aichele/Schwegler 5, 1996; Dudtschenko et al. 1989; Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999; Zeven/de Wet 1982

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 Allium senescens L.

Common Names ▶ mountain leek; *German*: Berglauch, Trägerischer Lauch; *Russian*: mansur, starejuschij luk

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ E Siberia (former Burjat ASSR), N Mongolia, Japan

Fleischhauer 2003; Hager 4, 1992; Loch 1993; Pochljobkin 1974, 1977; Täufel et al. 1993; Uphof 1968; Wiersema/León 1997

 Allium sphaerocephalon L.

Common Names ▶ ball leek; *German*: Kugellauch, Kugelköpfiger Lauch

Usage ▶ spice, bulb

Parts Used ▶ leaf

Distribution ▶ S Europe: especially the Balkan States, Turkey, N Africa

Dudtschenko et al. 1989; Fleischhauer 2003; Loch 1993; Štajner et al. 2003

 Allium splendens Miq.

▶ *Allium chinense* G. Don

 Allium stipitatum Regel

Synonyms ▶ *Allium hirtifolium* Boiss.

Common Names ▶ drumstick allium; *German*: Anzurzweibel, Gestielte Zwiebel, Stiellauch; *Russian*: luk stebel'tschatj

Usage ▶ spice (singel)

Parts Used ▶ bulb

Distribution ▶ C Asia, in the former Soviet Union, mountains from Altai, N India, Pakistan, Afghanistan

Erhardt et al. 2002; Hanelt 2001; Täufel et al. 1993; Teuscher 2003

 Allium stracheyi Baker

▶ *Allium consanguineum* Kunth

 Allium strictum Schrad.

Common Names ▶ *German*: Steifer Lauch

Usage ▶ spice

Parts Used ▶ leaf, bulb

Distribution ▶ Europe, Russia, W, E Siberia, Amur, Sakhalin, Kamchatka, Mongolia, C Asia

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993

 Allium sulcatum DC.

▶ *Allium neopolitanicum* Cyr.

 Allium suvorovii Regel

Common Names ▶ *German*: Anzurzweibel

Usage ▶ spice

Parts Used ▶ bulb

Distribution ▶ in the former Soviet Union

Hanelt 2001; Täufel et al. 1993; Teuscher 2003

 Allium tartaricum L.f.

▶ *Allium ramosum* L.

 Allium tricoccum Blanco

Common Names ▶ ramp, wild leek, wood leek; *French*: ail des bois, ail sauvage; *German*: Wilder Lauch, Holzlauch

Usage ▶ spice, flavoring

Parts Used ▶ leek

Distribution ▶ N America

Erichsen-Brown 1989; Hanelt 1994; Small 1997; Uphof 1968; Wiersema/León 1997

 Allium triquetrum Lour.

▶ *Allium chinense* G. Don

 Allium tsoongii Wang et Tang

➤ *Allium hookeri* Thaites

 Allium tuberosum Rottl. ex Spreng.

Synonyms ▶ *Allium odorum* auct. non L.

Common Names ▶ Chinese chives, Chinese leek, oriental garlic, garlic chives; *Arabic*: kurrat seeny; *Chinese*: cuchay, juzii, gow choy, kiu ts'ai; *French*: ail civette de Chine, ciboulette Chinoise, civette; *German*: Chinesischer Lauch, Schnittknoblauch; *India*: bunganana; *Indonesian*: kucai; *Japanese*: nira; *Korean*: buchū, tongibuchū; *Malaysian*: bawang kucai, kucai; *Pilipino*: kutsay; *Portuguese*: alho chinês; *Russian*: luk medweshij, luk tscheremsha; *Spanish*: cive chino; *Thai*: bai kuichai, dok kuichai, kui chaai

Usage ▶ spice, flavoring (food); **product**: essential oil

Parts Used ▶ leek

Distribution ▶ China, India, Mongolia, Japan, native or perhaps native elsewhere in E Asia

Note ▶ The flowers also used as spice with garlic and honey taste.

Arora/Pandey 1996; Blancke 2000; Bremness 2001; Cheers 1998; Chung Hee Don/Youn Sun Joo 1996; Erhardt et al. 2002; Hager 4, 1992; Hanelt 1999; Hiller/Melzig 1999; Hutton 1998; Kumar 2003; Larkcom 1991; Lück 2000; Ooi et al. 2002; Oyen/Dung 1999; Pino et al. 2001; Sang et al. 1999; Schultze-Motel 1986; Seidemann 1993; Siemonsma/Piluek 1993; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Wiersema/león 1999; Zeven/de Wet 1982

 Allium uliginosum G. Don

➤ *Allium ramosum* L.

 Allium uliginosum Ldb.

➤ *Allium ledebourianum* Roem. et Schult.

 Allium ursinum L.

Common Names ▶ bear's garlic, buckrams, gipsy onion, hog's garlic, ramsons, broad-leaved garlic, wild garlic, wood garlic, German Zigeunerknoblauch;

French: ail des bois, ail des ours; *German*: Bär(en)-lauch, Hexenzwiebel, Judenzwiebel, Rams, Ramsons, Wald-(knob-) lauch, Zigeunerlauch, Wilder Knoblauch, Wilder Knofel, Teufelschnoblech; *Italian*: aglio orsino; *Russian*: tschermscha, medveshij luk, dikij luk, genseli

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ C, N Europe, Caucasus, N, W Asia, temperate Europe

Note ▶ In Germany and W Caucasus (Svanetia) ssp. *ucrainicum* Kleopow et Oxner represent the garden forms.

Aichele/Schwegler 5, 1996; Boss-Teichmann/Richter 2002; Carotenuto et al. 1996; Cheers 1998; Davidson 1999; Dudtschenko 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Pochljobkin 1974, 1977; Pschyrembel 1998; Richter 1999; Schönfelder 2001; Seidemann 1993c; Täufel et al. 2000; Teuscher 2003; Uphof 1968; Wagnier/Sendl 1990; Wiersema/León 1997

 Allium vavilovii M. Popov

Common Names ▶ Vavilov leek; *German*: Vavilov-Lauch; *Russian*: luk vavilova

Usage ▶ spice

Parts Used ▶ bulb, leaf

Distribution ▶ Russia, C Asia: Kopet-Dag mountains at the borderline between Turkmenia and Iran, N Iran

Note ▶ Perhaps ancestral species of *Allium cepa* L.

Dudtschenko et al. 1989; Hanelt 2001; Wiersema/León 1999; Zeven/de Wet 1982

 Allium victoralis L.

Synonyms ▶ *Allium anguinum* Bubani, *Allium ellipticum* Wall., *Allium latissimum* Prokh., *Allium microdictyum* Prokh., *Cepa victoralis* Moench

Common Names ▶ alpine leek, longroot onion, longrooted garlic, wild garlic; *Chinese*: ge con, shan cong, tse suan; *French*: ail de ceuf, herbe à neuf chemises; *German*: Allermannsharnisch, Lange Siegwurzel; *Japanese*: gyôja-ninniku; *Russian*: kolba, luk pobednij, luk sibirskij, sibirskaja tschermscha

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■ **Allium victorialis**, flowering

Usage ▶ spice

Parts Used ▶ leek, bulb

Distribution ▶ mountains of Europe from N Portugal to S Ural, Caucasus, W Himalayas; S, C Siberia (Taiga), N Mongolai

Note ▶ Russian autors split *A. victorialis* L. into three species.

Aichele/Schwegler 5, 1996; Dudtschenko et al. 1989; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hoppe 1949; Loch 1993; Pochljobkin 1974, 1977; Schultze-Motel 1986; Schnelle 1999; Seidemann 1993c; Täufel et al. 1993; Uphof 1968; Wijaya et al. 1991



Allium victorialis L. ssp. *platyphyllum* Hulten

Synonyms ▶ *Allium ochotense* Prokh.

Common Names ▶ *German:* Breitblättriger Allermannsharnisch

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Russian, Far East, Korea, China, Japan

Hanelt 1994, 2001



Allium vineale L.

Common Names ▶ crow garlic, false garlic, field garlic, slag garlic, wild onion; *German:* Koch's Lauch, Perlknoblauch, Weinberg-Lauch

Usage ▶ spice, flavoring

Parts Used ▶ leaf (leek)

Distribution ▶ Eurasia, N Africa, Turkey, Caucasus, native E USA, widely native elsewhere

Aichele/Schwegler 5, 1996; Davidson 1999; Fleischhauer 2003; Small 1997; Teubner 2001; Wiersema/León 1997



Allium wakegi Araki

➤ *Allium x proleferum* (Moench) Shrad. ex Willd.



Allium wallichii Regel

➤ *Allium hookeri* Thaites



Aloe guineensis Jacq.

➤ *Sansevieria trifasciata* Prain

ALOYSIA Palau - Verbenaceae



Aloysia gratissima (Gillies et Hook.) Tronc.

Synonyms ▶ *Lipsea lycioides* (Cham.) Steud.

Common Names ▶ Texas white bush, common bec brush; *Mexico:* niñarupá, arrayan del campo; *Spanish:* cedrón de monte, hierba de la princesa, palo amerillo, reseda de campo, romerillo

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ New Mexico, Arizona, Texas, Mexico, Brazil

Wiersema/León 1997

 **Aloysia citriodora** (Lam.) Humb.

➤ *Lipsea triphylla* (L'Hérit.) Kuntze

 **Aloysia citriodora** Ortega ex Pers.

➤ *Lipsea triphylla* (L'Hér.) Kuntze

 **Aloysia triphylla** (L'Hérit.) Britton

➤ *Lipsea triphylla* (L'Hérit.) Kuntze

ALPINIA Roxb. - Galanga(l), Ginger Lily - Zingiberaceae

 **Alpinia aromatica** Aubl.

➤ *Renealmia aromatica* (Aubl.) Griseb.

 **Alpinia calcarata** Rosc. 

Common Names ▶ Indian ginger, snap ginger; *German*: Gespornter Galgant, Indischer Galgant, Indische Ingwerlilie; *India*: toroni

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ India, China; Papua New Guinea; in Indian cultivated

Note ▶ The rhizome used as a substitute of *Alpinia galanga* (L.) Willd.

Chopra 1956; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986

 **Alpinia cardamomum** Roxb.

➤ *Elettaria cardamomum* (L.) Maton

 **Alpinia caerulea** Kuntz

Common Names ▶ Australian blue ginger; common ginger of Australia



 **Alpinia calcarata**, flowering

Usage ▶ seasoning

Parts Used ▶ herb

Distribution ▶ Australia

 **Alpinia conchigera** Griff.

Synonyms ▶ *Languas conchigera* Burkill

Common Names ▶ mussel galanga; *German*: Muschelgalgant; *SE Asia*: lěngkuas, ranting, lěngkuas kěchil, lěngkuas padang, jěnuang, rumput, kelemoyang; *Vietnamese*: rieng rung, rieng nuoc

Usage ▶ seasoning for dishes and alcoholic drinks

Parts Used ▶ rhizome

Distribution ▶ Bangladesh, Thailand, Vietnam, Malaysia, Sumatra

Note ▶ The fruits are used as vegetables.

Arora/Pandey 1996; Bois 1934; Burkill 1966; Hanelt 2001; Ogle et al. 2003; Oyen/Dung 1999; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wong 1999; Yusuf et al. 2002; Zeven/de Wet 1982

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 Alpinia eliator Jack➤ *Etlingera elatior* (Jack) R.M. Sm. **Alpinia galanga** (L.) Willd.**Synonyms** ▶ *Amomum galanga* L.; *Galanga major* Rumph; *Languas galanga* (L.) Stunz., *Languas vulgare* Koenig, *Maranta galanga* L.**Common Names** ▶ galanga, galangal, the greater galangal, Java galangal, lesser galangal, Siamese ginger; *Arabic*: el galangal, el adkham; *Chinese*: gao liang jiang; *Dutch*: geelwortel; *French*: galanga, galanga de l'Inde, galanga majeur, grand galanga; *German*: Echter Galgant, Großer Galgant, Siam-Galgant, Siam-Ingwer, Thai-Ingwer; *Hindi*: kulanjan, barakulanjar; *Indonesian*: langkuas, laos, laja; *Italian*: galanga; *Japanese*: koryokyo, ukon; *Javanese*: laos; *Laos*: kha: x ta: dè: ng; *Malaysian*: lengkuas, meranang, puar; *Pilipino*: langkawas, palla langkuas; *Portuguese*: galanga maior; *Russian*: galangowyj koren', bol'schoj koren'; *Sanskrit*: malaavaca, sugandha; *Slovakian*: galgan jávsky; *Spanish*: galanga, galagana, galanga mayor, garengal; *Thai*: kha; *Vietnamese*: rieng, rieng am, rieng nep, hau kha**Usage** ▶ spice, condiment; **product**: essential oil**Parts Used** ▶ rhizome, seed**Distribution** ▶ India, China, SE Asia; Sri Lanka, Malaysia; cultivated in the Paleotropics.

Arora/Pandey 1996; Bois 1934; Boisvert/Hubert 2000; Charles et al. 1992; Cheah/Abu Hasim 2000; Cheers 1998; Dalby 2000; Davidson 1999; Duke et al. 2003; Guzman/Siemonsma 1999; Hanelt 2001; Herklots 1972; Hiller/Melzig 1999; Holttum 1950; Kondo et al. 1993; Kumar 2003; Larsen et al. 1999; Lawrence et al. 1969; Melchior/Kastner 1974; Mitsui et al. 1976; Mori et al. 1995; Murakami et al. 2000; Noro et al. 1988; Norman 1991; Ogle et al. 2003; Oyen/Dung 1999; Pochljobkin 1974, 1977; Pooter et al. 1985; Pschyrembel 1998; Raina et al. 2002; Roth/Kormann 1997; Scheffer et al. 1981; Schultze-Motel 1986; Siewek 1990; Seidemann 1993c; Seidemann/Siebert 1987; Tao Guoda 1998; Täufel et al. 1993; Teuscher 2003; Tram Ngoc Ly et al. 2001; Uphof 1968; WHO 1990; Wiersema/León 1997; Wong 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004

 Alpinia galanga var. pyramidata (Blume) K. Schum.**Synonyms** ▶ *Alpinia pyramidata* Blume**Common Names** ▶ langkauas, pal-ha; *German*: Pyramiden-Galgant**Usage** ▶ spice**Parts Used** ▶ rhizome**Distribution** ▶ SE Asia: Java, Borneo, Philippines; in Java and the Philippines also cultivated

Burkill 1966; Chopra et al. 1956; Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wealth of India 1, 1948

 Alpinia globosa (Lour.) Horan➤ *Amomum globosum* Lour. **Alpinia malaccensis** (Burm.f.) Rosc.**Synonyms** ▶ *Maranta malaccensis* Burm.**Common Names** ▶ Malacca galangal; *German*: Malakka-Galgant; *Indonesian*: laja gowah; *Javanese*: puar, laja goa, polang; *Malaysian*: puar, bangle; *Mollucas*: langkuas malaka; *Pilipino*: taglak babae; *Thai*: kha paa**Usage** ▶ spice (rarely); **product**: essential oil (essence d'Amali, essence of Amali)**Parts Used** ▶ rhizome**Distribution** ▶ India, Bangladesh, Myanmar, SE Asia: Malaysia, Java, also cultivated**Note** ▶ The fruits are fragrant and are used for washing clothes and hair.

Burkill 1966; Chopra et al. 1956; Erhardt et al. 2002; Hanelt 2001; Holttum 1951, 1971; Kumar 2001; Oyen/Dung 1999; Schultze-Motel 1986; Seidemann 1993c; Tao Guoda 1998; Täufel et al. 1993; Wealth of India 1, 1948; Wiersema/León 1999; Wong 1999; Yusuf et al. 2002; Zeven/de Wet 1982

 Alpinia nigra (Gaertn.) Burt.**Synonyms** ▶ *Zingiber nigrum* Gaertn.**Common Names** ▶ black galangal; *French*: noir galanga; *German*: Schwarzer Galgant**Usage** ▶ flavoring, e.g. curry in Bangladesh**Parts Used** ▶ central part of stem**Distribution** ▶ Bangladesh; Pacific Islands: Hawaii, Jamaica

Kumar 2001; Newman et al. 2004; Tao Guoda 1998; Yusuf et al. 2002

Alpinia officinarum Hance

Synonyms ► *Languas officinarum* (Hance) Farw.

Common Names ► Chinese ginger, lesser galangal, lesser galingle, small galangal, East Indian root; *Ara-bic*: hodengal, khulingan; *Chinese*: hua ha, gao liang jiang; *French*: galangal officinal, galangal de la China, petit galangal; *German*: Echter Galgant, Kleiner Galgant, Siam-Ingwer, Thai-Ingwer; *India*: kulinján; *Italian*: galanga minore; *Russian*: al'piniaaptetschnaja; malyj koren'; *Slovakian*: gal-gan liečivý; *Spanish*: galanga; *Vietnamese*: rieng thuoc

Usage ► spice, condiment

Parts Used ► rhizome

Distribution ► S China, Hainan, Japan

Bois 1934; Chopra et al. 1956; Craze 2002; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Hanelt 20001; Hohmann et al. 2001; Hoppe 1949; Ly et al. 2002, 2003; Melchior/Kastner 1974; Morris/Mackley 1999; Norman 1991; Pochljobkin 1974, 1977; Schenck/Naundorf 1966; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

Alpinia purpurata (Vieill.) K. Schum.

Common Names ► red ginger; *German*: Roter Ingwer; *Indonesian*: alpinia merah; *Malaysian*: lengkuas; *Thai*: khing daeng; *Vietnamese*: rieng tia

Usage ► flavoring, e.g. coconut oil

Parts Used ► leaf

Distribution ► Moluccas, Caroline Islands, New Caledonia, Papua New Guinea, in SE Asia native

Cheers 1998; Engler/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Kottegoda 1994; Larsen et al. 1999; Small 1997; Wiersema/León 1997; Wong 1999

Alpinia pyramidata Blume

► *Alpinia galanga* var. *pyramidata* (Blume) K. Schum.

Alpinia speciosa D. Dietr.

► *Etlingera elatior* (Jack) R.M. Sm.

Alpinia speciosa (J.W. Wendl.) K. Schum.

► *Alpinia zerumbet* (Pers.) B.L. Burtt et R.M. Sm.

Alpinia zerumbet (Pers.) B.L. Burtt et R.M. Sm.

Synonyms ► *Alpinia speciosa* (J.W. Wendl.) K. Schum., *Costus zerumbet* Pers., *Zerumbet speciosum* J.W. Wendl.

Common Names ► bright ginger, pink porcelain lily, light galangal, shell ginger; *Bengali*: punag champa; *German*: Martineque-Ingwer, Porzellan-Ingwer-lilie; *Indonesian*: galoba merah, galoba koi; *Pili-pino*: langkuas na pula;

Usage ► spice, utilized the rhizome like of *Alpinia galanga* (L.) Willd.

Parts Used ► leaf, rhizome (substitute for ginger)

Distribution ► NE India, also cultivated in tropical areas of Asia: India, Sri Lanka, Malaysia, Myanmar and Tonga Islands and Cuba

Note ► The aromatic leaves are used to wrap rice or fish for cooking.

Arora/Pandey 1996; Burkill 1966; Cheers 1998; Chopra et al. 1956; Dung et al. 1994a, b; Erhardt et al. 2002; Fujita et al. 1994; Hanelt 2001; Holtum 1950, 1971; Itokawa et al. 1981; Kottegoda 1994; Larsen et al. 1999; Oyen/Dung 1999; Prudent et al. 1993; Schultze-Motel 1986; Seidemann 1993a; Small 1997; Täufel et al. 1993; Wealth of India 1, 1948; Wong 1999

ALSTONIA R.Br. - Apocynaceae

Alstonia acuminata Miq.

Common Names ► ajooras, poole batoo

Usage ► flavoring

Parts Used ► roasted root

Distribution ► Moluccas, Bali, Java

Note ► The root is used to impart a bitter flavor to palm vine.

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■ **Alpinia zerumbet**, flowering

Uphof 1968



Alstonia scholaris (L.) R.Br.

Synonyms ► *Echites malabarica* Lam., *Echites scholaris* L.

Common Names ► devils' tree, dita bark, palmira alstonia, shiatan wood, Australian fever, white cheese wood, milk wood; *Chinese*: tang jiao shu, xiang pi mu; *French*: echite; *German*: Ditabaum, Teufelsbaum, Zitronen-Mahagoni; *Hindi*: chaitan, chatwan, chitvan, chattiyan, eta-kula, lettok, pali-mari, shaitan; *Indonesian*: pulai; *Javanese*: pulé; *Malaysian*: basong, jelutong, pulai, rejang; *Nepal*: chatiwa; *Pilipino*: dita tangitang; *Sanskrit*: saptaparna, visalatvak; *Thai*: phayaa sattaban, tin ped; *Vietnamese*: may man, mu cua

Usage ► spice, flavoring liqueurs

Parts Used ► bark

Distribution ► E India, China, Himalayas, Sri Lanka, Malaysia, Australia; in Egypt, India, Java, Vietnam also cultivated

Note ► The plant serves as support for *Piper nigrum* L.

Arora/Pandey 1996; Berger 1, 1949; Cheers 1998; Dastur 1954; Ehrhardt et al. 2002; Engel/Phummai 2000; Gandhi/Vinayak 1990; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Kottegoda 1994; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; 1998/2000; Uphof 1968; Wen-lan Hu et al. 1989; WHO 1990; Wiersema/León 1997

ALYXIA Banks ex R.Br. - Apocynaceae



Alyxia gynopogon Roem. et Schult.

► *Alyxia lucida* Wall.



Alyxia lucida Wall.

Synonyms ► *Alyxia gynopogon* Roem. et Schult., *Gynopogon alyxia* J.R. Forst

Common Names ► alyxia cinnamon; *German*: Alyxia-Zimtrinde; *Malaysian*: akar bagan, mēmpēlasari, pulasari; *Thai*: cha-loot

Usage ► spice (locally)

Parts Used ► bark

Distribution ► Malaysia, Indonesia, Madagascar, also cultivated

Note ► Substitute for *Cinnamomum zeylanicum* Bl. – In Madagascar bark and leaves are employed in the manufacture of rum.

Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Uphof 1968



Amaracus syriacus (L.) Stokes

► *Origanum syriacum* L.

AMBLYGONOCARPUS Harms - Fabaceae (Leguminosae)

 **Amblygonocarpus andogensis** (Oliv.) Exell
et Torre

➤ *Amblygonocarpus schweinfurthii* Harms

 **Amblygonocarpus schweinfurthii** Harms

Synonyms ▶ *Amblygonocarpus andogensis* (Oliv.) Exell
et Torre

Common Names ▶ *Ghana*: dagbani nanzidow; *Nigerian*:
fula-fulfulde

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ W Africa: Ghana, Nigeria, Ubangi

Note ▶ Pulverized seeds are boiled and fermented.

Burkill 3, 1995; Neuwinger 1999

AMBROSIA L. – Ragweed - Asteraceae (Compositae)

 **Ambrosia maritima** L.

Common Names ▶ sea ambrosia; *Arabic*: damsisa, ghob-
beira, tannoun; *German*: Strand-Ambrosie

Usage ▶ flavoring of soups and liqueurs

Parts Used ▶ plant

Distribution ▶ W Africa: N Nigeria; Mediterranean Re-
gion: Iberia, France, Turkey

Burkill 1, 1985; Erhardt et al. 2002; Uphof 1968

 **Amburana cearrensis** (Fr. Allem.) A.C. Smith

➤ *Torresea cearensis* Fr. Allem.

AMELANCHIER Medik. - Rosaceae

 **Amelanchier alnifolia** (Nutt.) Nutt.

Synonyms ▶ *Amelanchier macrocarpa* Lunell, *Aronia al-*
nifolia Nutt., *Pyrus alnifolia* Lindl.

Common Names ▶ alderleaf berry, Pacific berry, saska-
toon, western serviceberry; *German*: Erlenblät-
trige Felsenbirne; *Russian*: irga ol'cholistnaja

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ N America: W coast (Colorado, Idaho,
Nebraska, New Mexico, California), Canada

Hanelt 2001; Schultze-Motel 1986; Uphof 1968

 **Amelanchier macrocarpa** Lunell

➤ *Amchelanchier alnifolia* (Nutt.) Nutt.

AMMI L. - Bullwort - Apiaceae (Umbelliferae)

 **Ammi copticum** L.

➤ *Trachyspermum ammi* (L.) Sprague

 **Ammi majus** L.

Synonyms ▶ *Apium ammi* Crantz

Common Names ▶ false bishop's weed, greater ammi, bull-
wort, lady's lace; *Arabic*: khilla shitani, killa, kille
sheitani; *French*: ammi élevé; *German*: Bischofs-
kraut, Großer Ammi, Große Knorpelmöhre; *Ital-*
ian: rizzomolo, visnaga maggiore; *Portuguese*: er-
trudes (Brazil); *Russian*: ammi bol'schaja; *Spanish*:
ameo bastardo, ameo mayor

Usage ▶ spice (of meat)

Parts Used ▶ fruit

Distribution ▶ N and NE Africa, Caucasus, W Asia, In-
dia, SE and SW Europe, Australia, New Zealand,
N America, native elsewhere

Note ▶ Tastes like thyme.



■ **Ammi visnaga, fruiting**

Aichele/Schwegler 3, 1995; Bärtels 1997; Berger 5, 1952; Cheers 1998; Erhardt et al. 2002; Fahmy et al. 1947; Hanelt 2001; Hiller/Melzig 1999; Lück 2000; Melchior/Kastner 1974; Schönfelder 2001; Schultze-Motel 1986; Sharma 2003; Täufel et al. 1993; Turova et al. 1987; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

Ammi visnaga (L.) Lam. ■

Synonyms ► *Apium visnaga* (L.) Crantz, *Daucus visnaga* L.

Common Names ► khella, lesser bishop's weed, pick tooth, visnaga; *Arabic*: khelal, khella, khilla baladi, noukha; *French*: fruit aux cure-dents, fruit de khella; *German*: Ammi, Zahnstocher-Kraut; *Italian*: kella, visnaga; *Korean*: ammi; *Russian*: ammi zubnaja; *Spanish*: escuradentis, viznaga

Usage ► spice, source of khellin and xanthotoxin

Parts Used ► fruit

Distribution ► SW Europe: Iberia, France, Turkey, Cyprus, N Iraq, Iran, Canary Islands, N Africa, W Asia, native elsewhere

Akačić/Kuštrak 1960; Bärtels 1997; Berger 3, 1952; Czupor 1970;

Erhardt et al. 2002; Hager 8, 1996; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Pschyrembel 1998; Schindler 1953; Schönfelder 2001; Schultze-Motel 1986; Sharma 2003; Turova et al. 1987; Uphof 1968; Wiersema/León 1997; Wyk et al. 2004

AMMODAUCUS Coss. et Durieu - Apiaceae (Umbelliferae)

Ammodaucus leucotrichus Coss. et Durrau

Common Names ► *Arabic*: cafoun

Usage ► spice (similar caraway), cultivated as a condiment

Parts Used ► fruit, seed

Distribution ► Canary Islands, N and W Africa: Algeria, Tunisia, Nigeria, Mauritania, Upper Nile Valley

Note ► Cultivated in the oases of the Sahara, in Mauritania and the upper Niger valley.

Adegoke et al. 1968; Bois 1934; Burkill 5, 2000; Dalziel 1937; Erhardt et al. 2002; Hanelt 2001; Melchior/Kastner 1974; Schnell 1957; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Zeven/de Wet 1982

AMOMUM Roxb. - Cardamom - Zingiberaceae

Amomum acre VaL.

Common Names ► *German*: Beißender Kardamom; *Indonesian*: panasa, panasan, pane

Usage ► pungent condiment

Parts Used ► fruit, inner part of petioles

Distribution ► Indonesia (S Sulawesi)

Note ► The seed-coat and very young stem are sometimes directly used as a pungent condiment

Guzman/Siemonsma 1999; Oyen/Dung 1999

Amomum alboviolaceum Ridley

➤ *Aframomum alboviolaceum* (Ridley) K. Schum.

 Amomum alpinia Rottboel

➤ *Renealmia alpinina* (Roettboel) Maas

 Amomum angustifolium Salisb.

➤ *Zingiber officinale* Rosc.

 Amomum angustifolium Sonn.

➤ *Aframomum angustifolium* (Sonn.) K. Schum.

 Amomum aromaticum Roxb.

Common Names ▶ Bengal cardamom, Nepal cardamom, large cardamom; *French*: cardamome du Bengale; *German*: Bengalischer Kardamom, Nepal-Kardamom, Langer Kardamom; *India*: morang elaichi; *Vietnamese*: mac hau, thao qua

Usage ▶ spice; **product**: essential oil

Parts Used ▶ capsule, seed

Distribution ▶ N India (Assam), Bangladesh, Nepal; cultivated also in Bengal, India (Assam) to N Vietnam

Arora/Padney 1996; Berger 3, 1952; Berger 1964/65; Blancke 2000; Chopra et al. 1956; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Holtum 1951; Kumar 2001; Melchior/Kastner 1974; Ogle et al. 2003; Overdieck 1992; Pruthi 1976; Schultze-Motel 1986; Siewek 1990; Täufel et al. 1993; Teuscher 2003; Turova et al. 1987; Uphof 1968; Wealth of India 1, 1948; WHO Manila 1990; Zeven/de Wet 1982

 Amomum cardamomum L.

➤ *Elettaria cardamomum* (L.) Maton

 Amomum cardamom auct., non L.

➤ *Amomum compactum* Sol. ex Maton

 Amomum cardamomum Roxb.

➤ *Amomum compactum* Sol. ex Maton

 Amomum cevuga Seemann

Usage ▶ scenting coconut oil

Parts Used ▶ seed

Distribution ▶ Pacific Islands: Tahiti, Marquesas, Fiji

Uphof 1968

 Amomum clusii Hanb.

➤ *Aframomum hanburyi* K. Schum.

 Amomum compactum Sol. ex Maton

Synonyms ▶ *Amomum cardamomum* auct., non L., *Amomum kepulaga* Sprague et Burkill, *Amomum cardamomum* Roxb.

Common Names ▶ round cardamom, cluster cardamom; Java cardamom; false cardamom, Indonesian cardamom, Siam cardamom, chester cardamom; *Cambodian*: cravanh; *Dutch*: ronde kardemom; *French*: amome à grappe; cardamome rond; *German*: Runder Kardamom, Trauben-Kardamom, Java-Kardamom, Siam-Kardamom; *Indonesian*: kapulaga, kapol, puwar pelaga; *Malaysian*: batang pelaga, pelaga, kardamoenggve, kēpulaga, puar; *Vietnamese*: bach dầu khâu

Usage ▶ spice; **product**: essential oil

Parts Used ▶ capsule, seed

Distribution ▶ endemic in W Java; cultivated: Java, Sumatra, Moluccas, Malaysia, S China

Note ▶ The fruits have a camphor taste and the seeds serve as a condiment in cakes.

Berger 3, 1952; Berger 1964/65; Burkill 1966; Duke et al. 2003; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Larsen et al. 1999; Melchior/Kastner 1974; Oberdieck 1992; Oyen/Dung 1999; Peter 2001; Pruthi 1976; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Amomum curcuma Jacq.

➤ *Cucuma longa* L.

A

**Amomum daniellii** J.D. Hook.

➤ *Aframomum daniellii* (J.D. Hook.) K. Schum.

**Amomum dealbatum** Roxb.

➤ *Amomum maximum* Roxb.

**Amomum echinosphaera** K. Schum. ex Gagnep.

➤ *Amomum villosum* Lour.

**Amomum gagnepainii** T.L. Wu

Synonyms ▶ *Amomum thyrsoideum* Gagnep

Common Names ▶ *Vietnamese*: riềng âm

Usage ▶ spice

Parts Used ▶ fruit (capsule)

Distribution ▶ tropical Asia, especially Indochina

Hanelt 2001

**Amomum galanga** L.

➤ *Alpinia galanga* (L.) Will.

**Amomum globosum** Lour.

Synonyms ▶ *Alpinia globosa* (Lour.) Horan

Common Names ▶ round Chinese cardamom, cardamom nigra; *Chinese*: cao kou, *German*: Bitterer Kardamom, Chinesischer Kardamom; Schwarzer Kardamom, Bastard-Kardamom; *Korean*: choduguphul; *Vietnamese*: mè tré

Usage ▶ spice, condiment

Parts Used ▶ fruit, seed

Distribution ▶ S China, E Himalayas, Vietnam; Cambodia, Laos, N Thailand, in China and Korea also cultivated

Guzman/Siemonsma 1999; Hager 4, 1992; Hager 5, 1993; Hanelt 2001; Norman 1991; Overdieck 1992; Oyen/Dung 1999; Schultze-

Motel 1986; Täufel et al. 1993; Teuscher 2003; Turova et al. 1987; Uphof 1968; Zeven/de Wet 1982

**Amomum gracile** Blume

Common Names ▶ slender cardamom; *German*: Schlanker Kardamom, Braziler Kardamom; *Malaysian*: serkom; *Sanskrit*: ela-ela, serkkom, parahuln

Usage ▶ spice, flavoring.

Parts Used ▶ leaf (leek)

Distribution ▶ Java, Malaysia

Burkill 1966; Hanelt 2001; Uphof 1968; Schultze-Motel 1986; Wiersema/León 1999

**Amomum kepulaga** Sprague et Burkhill

➤ *Amomum compactum* Sol. et Maton

**Amomum korarima** Pereira

➤ *Aframomum korarima* Pereira ex Engl.

**Amomum krervanh** Pierre ex Gagnep.

Synonyms ▶ *Amomum verum* Blackw.

Common Names ▶ Cambodian cardamom, chester cardamom, Bengal cardamom, Siam cardamom; *Cambodian*: krevanh, krervanh, kreko shmol; *Chinese*: pai tou kou; *French*: cardamome krervanh; *German*: Indochina-Kardamom, Kambodscha-Kardamom; *Thai*: krawan; *Vietnamese*: sa nhon, kreko krervanh

Usage ▶ spice (locally) e.g. for curry and cakes; in Europe different for sauces and liqueurs

Parts Used ▶ capsule, seed

Distribution ▶ SE Asia, Cambodia, China and Thailand also cultivated

Bois 1934; Burkill 1966; Dalby 2000; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Holttum 1951; Melchior/Kastner 1974; Oyen/Dung 1999; Peter 2001; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982

 Amomum maximum Roxb.

Synonyms ▶ *Amomum dealbatum* Roxb., *Cardamomum dealbatum* Kuntze

Common Names ▶ Java cardamom; *Chinese*: guo gu; *German*: Java-Kardamom; *Javanese*: rēsah, wrēsah; hanggasa

Usage ▶ spice

Parts Used ▶ capsule, seed

Distribution ▶ India (Sikkim), Bangladesh, Malaysia; in India, China and Java also cultivated

Berger 3, 1952; Berger 1964/65; Burkill 1966; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Kumar 2001; Morton 1976; Ochse/van den Brink 1931; Schultze-Motel 1986; Tao Guoda 1998; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Yusuf et al. 2002; Zeven/de Wet 1982

 Amomum melegueta Rosc.

➤ *Aframomum melegueta* K. Schum.

 Amomum mioga Thunb.

➤ *Zingiber mioga* (Thunb.) Rosc.

 Amomum montanum Koenig

➤ *Zingiber cassumunar* Roxb.

 Amomum ochreum Ridley

Common Names ▶ *Malaysian*: tepus batu

Usage ▶ spice, substitute for true cardamom

Parts Used ▶ capsule (fruit, seed)

Distribution ▶ Malaysia

Guzman/Siemonsma 1999; Holttum 1950; Larsen et al. 1999; Oyen/Dung 1999; Wong 1999

 Amomum racemosum Lam.

➤ *Elettaria cardamomum* (L.) Maton

 Amomum roseum K. Schum.

➤ *Etlingera rosea* Burt et Smith

 Amomum sanguineum K. Schum.

➤ *Aframomum angustifolium* (Sonn.) K. Schum.

 Amomum stenoglossum Baker

➤ *Amomum xanthophlebium* Baker

 Amomum subulatum Roxb.

Synonyms ▶ *Cardamomum subulatum* Kuntze

Common Names ▶ Bengal cardamom, Nepal cardamom, brown cardamom, greater cardamom, large cardamom, wringed cardamom, Indian cardamom; *French*: cardamome du Népal; *German*: Langer Kardamom, Großer Kardamom, Nepal-Kardamom, Sikkim-Kardamom; *Indian*: bara ilachai, elcho, motéveldodé, kátte-yelak-káy; bara alachi (Bengal)

Usage ▶ spice (locally), specially for curries, soups, sausages, sweets; **product**: essential oil

Parts Used ▶ seed

Distribution ▶ tropical Asia: Himalayas (Nepal, Bhutan), India (Sikkim), also cultivated

Note ▶ Also a substitute for true cardamom.

Annamalai et al. 1988; Berger 3, 1952; Berger 1964/65; Bois 1934; Chopra et al. 1956; Govindarajan et al. 1982; Gupta et al. 1984; Gurudutt et al. 1996; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Holttum 1951; Kumar 2001; Kumar/Raju 1989; Melchior/Kastner 1974; Mortin 1976; Mukherji 1973; Oyen/Dung 1999; Para Naik et al. 2000; Peter 2001; Pruthi 1976; Rao et al. 1993; Ratsch 1998; Schultze-Motel 1986; Singh 1978; Täufel et al. 1993; Teuscher 2003; Wealth of India 1, 1948

 Amomum sylvestre Lam.

➤ *Zingiber zerumbet* (L.) Rosc. ex Sm.

A

 Amomum testaceum Ridley

Common Names ▶ *Malaysian*: ka tepus, *Thai*: krawan, pla ko

Usage ▶ like true cardamom

Parts Used ▶ seed

Distribution ▶ Malaysia, S Thailand

Guzman/Siemonsma 1999; Holttum 1951; Larsen et al. 1999; Oyen/Dung 1999; Wong 1999

 Amomum thyrsoideum Ruiz et Pav.

➤ *Renealmia thyrsoidea* (Ruiz et Pav.) Poepp. et Endl.

 Amomum tsao-ko Crevast et Lemaire

Common Names ▶ tsao-ko cardamom, large cardamom; *Chinese*: cao guo, tsao ko; *French*: cardamome tsao-ko; *German*: Tsao-ko Kardamom, Langer Kardamom, Nepal-Kardamom; *Vietnamese*: dòho, sanhân âm

Usage ▶ spice

Parts Used ▶ fruit, seed

Distribution ▶ Vietnam, S China, also cultivated

Hager 4, 1992; Hanelt 2001; Wiersema/León 1999; Wu et al. 2000

 Amomum verum Blackw.

➤ *Amomum krervanh* Pierre ex Gagnep.

 Amomum villosum Lour.

Synonyms ▶ *Amomum echinosphaera* K. Schum. ex Gagnep.

Common Names ▶ bastard cardamom, false cardamom, Malabar cardamom, Tavoy cardamom, wild Siamese cardamom, *Chinese*: yang ch'un sha, sha ren; *French*: cardamome poilu de la Chine; *German*: Siam-Kardamom, Bastard-Kardamom; *Thai*: reo; *Vietnamese*: me te ba, pa dooc, sa nhan, xuân xa;

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ SE Asia, India, China, Korea, Thailand; Vietnam cultivated

Note ▶ Also a substitute for true cardamom.

Berger 3, 1952; Berger 1964/65; Burkill 1966; Chopra et al. 1956; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Oyen/Dung 1999; Rehm/Espig 1984; Turova et al. 1987; Wealth of India 1, 1948; Wu et al. 2000

 Amomum xanthioides Wall. ex Baker

Common Names ▶ bastard Siamese cardamom, false cardamom, wild Siamese cardamom, Tavoy cardamom, Malabar cardamom; *Chinese*: chunsha, sha jin ko; *German*: Bastard-Kardamom, Malabar-Kardamom; *Korean*: chuksa; *Malaysian*: tepus, bubga tatan, bunga tanjong

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ SW India (Malabar coast), Myanmar, Thailand; cultivated in India and China

Note ▶ Probably the most predominantly cultivated var. is *xanthioides* (Wall. ex Baker) T.L. Wu et S.J. Chen.

Berger 3, 1952; Berger 1964/65; Bois 1934; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 4, 1992; Holttum 1951; Melchior/Kastner 1974; Schultze-Motel 1986; Siewek 1990; Täufel et al. 1993; Teuscher 2003; WHO1990; Zeven/de Wet 1982

 Amomum xanthioides var. x xanthioides
(Wall. ex Baker) T.L. Wu et S.J. Chen

➤ *Amomum xanthioides* Wall. ex Baker

 Amomum xanthophlebium Baker

Synonyms ▶ *Amomum stenoglossum* Baker

Common Names ▶ *India*: elach; *Malaysian*: bubga tatan, bunga tanjong, tepus

Usage ▶ flavoring in curries

Parts Used ▶ flower

Distribution ▶ Malaysian Peninsula, Borneo

Guzman/Siemonsma 1999; Oyen/Dung 1999

 Amomum walang (Blume) Val.

➤ *Etlingera walang* (Blume) R.M. Smith

 Amomum zedoaria Christm.

➤ *Curcuma zedoaria* (Christm.) Rosc.

 Amomum zerumbet L.

➤ *Zingiber zerumbet* (L.) Rosc. ex Sm.

 Amomum zingiber L.

➤ *Zingiber officinale* Rosc.

**AMPELOCISSUS Planch. -
Vitaceae**

 Ampelocissus africanus (Lour.) Merr.

Synonyms ▶ *Ampelocissus grantii* Planch.

Usage ▶ condiment (in Ubangi)

Parts Used ▶ root

Distribution ▶ W Africa

Burkill 5, 2000

 Ampelocissus grantii Planch.

➤ *Ampelocissus africanus* (Lour.) Merr.

**ANACYCLUS L. -
Asteraceae (Compositae)**

 Anacyclus pyrethrum (L.) Lag.

Common Names ▶ Roman pellitory, Spanish pellitory, Spanish chaemomila, pyrethrum; *Arabic*: agargarha; *Brazil (Portuguese)*: piretro da África; *French*:

anacycle, pyrèthre d'Afrique; *German*: Deutscher Bertram, Römischer Bertram; *Hindi*: akarkara; *India*: akahara; *Italian*: piretro romano; *Russian*: romaschka nemezka; *Sanskrit*: akarakarabha, akallaka; *Spanish*: pelitre

Usage ▶ spice; **product**: essential oil (for liqueurs; rarely)

Parts Used ▶ root

Distribution ▶ W Mediterranean region: SE Spain, Morocco, Algeria; cultivated in Pakistan, India; also in Austria, Germany, the Netherlands and Hungary

Aichele/Schwegler 4, 1995; André 1998; Chopra et al. 1956; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Seidemann 1993; Täufel et al. 1993; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

**ANCISTROCLADUS Wall. -
Ancistrocladaceae**

 Ancistrocladus extensus Wall. ex Planch.

➤ *Ancistrocladus tectorius* Merr.

 Ancistrocladus tectorus (Lour.) Merr.

Synonyms ▶ *Ancistrocladus extensus* Wall. ex Planch.

Usage ▶ flavoring

Parts Used ▶ tender leaf

Distribution ▶ India, sea coast in the Andamans Islands

Arora/Pandey 1996; Oyen/Dung 1999

 Andropogon citratus DC. ex Nees

➤ *Cymbopogon citratus* (DC.) Stapf

 Andropogon citriodorum Desf.

➤ *Cymbopogon citratus* (DC.) Stapf

A

 Andropogon confertiflorus Steud.

- *Cymbopogon nardus* (L.) Rendle var. *confertiflorus* Stapf ex Bor.

 Andropogon festucoides J.S. Presl.

- *Vetiveria zizanioides* (L.) Nash

 Andropogon flexuosus Nees ex Steud.

- *Cymbopogon flexuosus* (Nees ex Steud.) Stapf

 Andropogon giganteus Hochst.

- *Cymbopogon giganteus* (Hochst.) Chiov.

 Andropogon iwarancusa W. Jones

- *Cymbopogon iwarancusa* (Jones) Schult. ex Roem. et Schult.

 Andropogon martinii Roxb.

- *Cymbopogon martinii* (Roxb.) J.F. Wats. ex Atkinson

 Andropogon muricatus Retz.

- *Vetiveria zizanioides* (L.) Nash

 Andropogon nardus L.

- *Cymbopogon nardus* (L.) Rendle

 Andropogon nardus (L.) Hook f. var. **mahapangiri** auct.

- *Cymbopogon winterianus* Jowitt ex Bor

 Andropogon schoenanthus L.

- *Cymbopogon schoenanthus* (L.) Spreng.

 Andropogon squarrosus Hackel

- *Vetiveria zizanioides* (L.) Nash

 Andropogon zizanioides Urban

- *Vetiveria zizanioides* (L.) Nash

**ANETHUM L. -
Apiaceae (Umbelliferae)** **Anethum foeniculum** L.

- *Foeniculum vulgare* Mill.

 Anethum graveolens L.

Synonyms ▶ *Anethum sowa* Roxb. ex Fleming, *Peucedanum graveolens* (L.) Hiern., *Peucedanum sowa* (Roxb. ex Fleming) Kurz

Common Names ▶ dill, Indian dill; *Arabic*: ainjarada, chibt, shebet, shibit; *Chinese*: shih luo zi; *French*: aneth, aneth odorant, fenouil bâtard, fenouil puant; *Dutch*: dille; *German*: Dill, Dille, Gurkenkraut, Bergkummel, Tille; *Hindi*: sowa, soi, soy, surva; *India*: suva ni bhaji; *Indonesian*: adas manis, adas sowa ender; *Italian*: aneto; *Japanese*: inondo; *Korean*: sira, sohoehyang; *Malaysian*: adas china, adas pudus, ender; *Portuguese*: endro; *Russian*: ukron, koper, zan, schiwit; *Sanskrit*: satapuspi, chatra; *Slovakian*: kôpor; *Spanish*: aneldo, aneto, eneldo; *Thai*: thian khaopluak, thian tatakataen, phakchi lao; *Vietnamese*: rau thia la

Use spice; **product**: ess. herb oil and essential seed oil

Parts Used ▶ leaf, seed

Distribution ▶ origin is not known; native in the Mediterranean and to S and SW Asia; cultivated world wide

Note ▶ Cultivated: *Anethum graveolens* L. var. *hortorum* Alef. and 'Sowa' (= *sowa hort.*).

Aggarwal et al. 2002; Aichele/Schwegler 3, 1995; Badoc/Lamarti 1991; Bärtels 1997; Baslas/Baslas 1971; Berger 3, 1952; Blank/Grosch 1991; Blancke 2000; Bois 1934; Bonnländer/Winterhalter 2000; Bremness 2001; Brunke et al. 1991b; Burkill 5, 2000; Craze 2002; Davidson 1999; Dudtschenko 1989; Erhardt et al. 2002; Faber et al. 1997; Farrell 1985; Fincke 1963; Garrabrants/Craker 1987; Gebczynski et al. 2001; Guzman/Siemonsma 1999; Hälva et al. 1988, 1992, 1993; Hammer/Krüger 1995; Hanelt 2001; Hay/Waterman 1993; Heeger 1956; Hendry 1982; Hepper 1992; Hiller/Melzig 1999; Hornok 1980; Hondelmann 2002; Hoppe 1949; Huopalahti 1985; Huopalahti/Lathinen 1988; Jansen 1981; Jirovets et al. 1994, 2002; Kmiecik et al. 2001; Krüger/Hammer 1996; McNavy Wood 2003; Melchior/Kastner 1974; Mhen van der/Bosch 1994; Morris/Mackley 1999; Norman 1991; Peter 2001; Pino et al. 1995; Pochljobkin 1974, 1977; Poggendorf et al. 1977; Pschyrembel 1998; Rätz 1974; Raghavan et al. 1994; Rosental 1969; Roth/Kormann 1997; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Siewek 1990; Singh 1987; Small 1997; Staesche 1972; Strunz et al. 1992; Su/Hovart 1988; Tainter/Grenis 1993; Täufel et al. 1993; Teuber/Herrmann 1978; Teuscher 2003; Tucker 1986; Tugrul et al. 2001; Ubillos 1989; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zawirska-Wojasiak/Wąsowicz 2002; Zeven/de Wet 1982



Anethum pastinaca *Wibel*

➤ *Pastinaca sativa* L.



Anethum piperitum *Ucria*

➤ *Foeniculum vulgare* Mill. ssp. *piperitum* (Ucria) Cout.



Anethum sowa *Roxb. ex Fleming*

➤ *Anethum graveolens* L.



Angelica acutilobe (Sieb. et Zucc.) Kitagawa

Synonyms ▶ *Ligusticum acutilobum* Sieb. et Zucc.) Kitag.

Common Names ▶ *Chinese*: dong dang gui; *German*: Spitzlappige Angelika; *Japanese*: tang-kuei

Usage ▶ flavoring

Parts Used ▶ root, leaf



■ **Angelica archangelica**, flowering

Distribution ▶ E Asia: China, Japan

Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999



Angelica archangelica L. ■

Synonyms ▶ *Angelica major* Gilib., *Angelica officinalis* (Moench) Hoffm., cultivated chiefly *Angelica archangelica* L. ssp. *archangelica* var. *Sativa*, *Archangelica officinalis* Hoffm.

Common Names ▶ archangel, garden angelica, wild parsnip; *Arabic*: hashsha almalak; *Chinese*: bai zhi; *Dutch*: engelwortel; *French*: angélique, angélique vraie, archangélique; *German*: Angelika, Brustwurz, Echte Engelwurz(el), Erzengebwurz, Theriakwurz; *India*: chora; *Italian*: angelica, archangelica; *Korean*: padaganghwal; *Portuguese*: angélica, erva do Espírito Santo; *Russian*: djagil', djagil'nik, angelika, anshelika, korownik sladkijctwol; ptetschnyj, *Spanish*: angélica, raíz del Espíritu Santo

Usage ▶ spice, flavoring; **product**: essential oil

A

Parts Used ▶ root, fruit, stem

Distribution ▶ Caucasus, Siberia, E, C and N Europe (Scandinavia), widely native elsewhere

Note ▶ The stem are often candied and used in confectionery.

Aichele/Schwegler 3, 1995; Berger 3, 1952; Bois 1934; Bournot 1968; Bremness 2001; Bruyan et al. 1954; Cheers 1998; Coiciu/Racz (no year); Doneanu/Anitescu 1998; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Genius 1981; Hager 4, 1992; Hanelt 2002; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Holm et al. 1997; Hoppe 1949; Kerrola et al. 1994; Newall et al. 1996; Nykänen et al. 1991; Opdyke 1975a; Paroul et al. 2002; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Roth/Korzmann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Small 1997; Staesche 1972; Taskinen/Nykänen 1975; Täufel et al. 1993; Tucker 1986; Ubillos 1989; Wiersema/León 1999; Wolski et al. 2003; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982; Zobel/Brown 1991



Angelica glauca Edgew.

Common Names ▶ *German*: Blaugrüne Engelwurz; *India*: gandrayan, chohore, chora

Usage ▶ flavoring

Parts Used ▶ root

Distribution ▶ W Himalayas

Note ▶ The roots have a celery-like flavor.

Arora/Pandey 1996; Dhar/Dhar 2000; Sharma 2003; Wealth of India 1, 1948



Angelica japonica A. Gray

Synonyms ▶ *Angelica kiusiana* Maxim, *Angelica seiboldii* Miq.

Common Names ▶ Japanese archangel; *Chinese*: ma ch'ing; *German*: Japanische Engelwurz(el); *Japanese*: hama-udo, oni-udo

Usage ▶ spice, flavoring

Parts Used ▶ root, fruit

Distribution ▶ China, Taiwan, Japan, Korea

Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993



Angelica kiusiana Maxim

▶ *Angelica japonica* A. Gray



Angelica keiskei (Miq.) Koidz.

Common Names ▶ *Japanese*: ashitaba

Usage ▶ spice, flavoring applied *Angelica archangelica*

Parts Used ▶ root

Distribution ▶ Japan, especially Izu Island

Hanelt 2001; Schultze-Motel 1986; Teuscher 2003



Angelica lucida L.

Common Names ▶ seaside angelica, sea watsch

Usage ▶ spice (rarely)

Parts Used ▶ root

Distribution ▶ Western N America from Oregon to Alaska, N Canada to Siberia, Newfoundland, Labrador

Hoppe1, 1975; Small 1997



Angelica major Gilib.

▶ *Angelica archangelica* L.



Angelica officinalis (Moench) Hoffm.

▶ *Angelica archangelica* L.



Angelica polymorpha Maxim var. *sinensis* Oliv.

▶ *Angelica sinensis* (Oliv.) Diels



Angelica seiboldii Miq.

▶ *Angelica japonica* A. Gray

 Angelica sinensis (Oliv.) Diels

Synonyms ▶ *Angelica polymorpha* Maxim var. *sinensis* Oliv.

Common Names ▶ Chinese angelica; *Chinese*: dang gui, dong gui, dang guai, dong guai; *German*: Chinesische Angelikawurz(el); *Japanese*: shirane-senkyū, suzuka-zeri

Usage ▶ spice for soups and poultry meat

Parts Used ▶ root

Distribution ▶ China, India, Indochina, Malaysia, Australia, Africa, native elsewhere in tropical regions

Hanelt 2001; Lück 2000; Schultze-Motel 1986; Wiersema/León 1999

 Angelica sylvestris L.

Common Names ▶ wild angelica, ginseng; *German*: Wald-Engelwurz, Brustwurz

Usage ▶ spice, flavoring

Parts Used ▶ root

Distribution ▶ C and N Europe, Turkey, Caucasus, Siberia

Aichele/Schwegler 3, 1995; Dudtschenko et al. 1989; Erichsen-Brown 1989; Fleischhauer 2003; Hager 4, 1992; 5, 1993; Hanelt 2001; Heeger 1956; Hoffmann et al. 1992; Krzaczek 1998; Krzaczek/Nowak 2002; Schönfelder 2001; Small 1997; Täufel et al. 1993; Wiersema/León 1999

 Angelica tenuissima Nakai

Synonyms ▶ *Ligusticum tenuissimum* (Nakai) Kilag

Common Names ▶ *German*: Zarte Angelikawurz, Zarte Mutterwurz; *Korean*: kobon

Usage ▶ flavoring (for traditional Asian dishes)

Parts Used ▶ herb

Distribution ▶ Asia: Korea, NE China, also cultivated

Baik et al. 1986; Hanelt 2001; Hyang-Sook Choi et al. 2001; Pu 1991

**ANIBA Aubl. -
Lauraceae**
A
 Aniba canellila (H.B.K.) Mez

Synonyms ▶ *Cryptocaria canellila* H.B.K.

Common Names ▶ Oriniko cinnamom; *Brazil (Portuguese)*: canellila, casca preciosa, lauro precios, pereirorá; *German*: Orinoko-Zimt

Usage ▶ spice

Parts Used ▶ bark, leaf

Distribution ▶ Brazil (Amazonas region), Columbia, Venezuela, Guayana

Note ▶ The leaves and the bark have a cinnamon-like flavor.

Gottlieb/Magalhães 1959, 1960; Hanelt 2001; Kumar 2001; Mors et al. 2000; Mors/Rizzini 1961; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968

 Aniba duckei Kosterm.

▶ *Aniba rosaeodora* Ducke

 Aniba fragrans Ducke

Common Names ▶ *Brazil (Portuguese)*: macacaporanga

Usage ▶ flavoring

Parts Used ▶ bark, wood

Distribution ▶ S America: Brazil

Kumar 2001

 Aniba rosaedora Ducke

Synonyms ▶ *Aniba duckei* Kosterm.

Common Names ▶ rose wood; *Brazil (Portuguese)*: bois de rose; *Dutch*: echt rozenhout; *French*: bois de rose fewmelle, bois de rose de Cayenne; *German*: Brasilianisches Rosenholz; *Portuguese*: páo rosa

Usage ▶ flavoring ; **product**: essential oil

Parts Used ▶ wood

Distribution ▶ tropical S America: Brazil, Mexico; cultivated in French Guyana, Surinam

A

Hanelt 2001; Kumar 2001; Roth/Kormann 1997; Schultze-Motel 1986; Wiersema/León 1999

ANISOCHILUS Wall. ex Benth. - Lamiaceae (Labiatae)

Anisochilus siamensis Ridl.

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ NW Thailand

Hanelt 2001

Anisum officinarum Moench

➤ *Pimpinella anisum* L.

Anisum vulgare Gaertn.

➤ *Pimpinella anisum* L.

Annona myristica Gaertn.

➤ *Monodora myristica* (Gaertn.) Dunal

ANREDERA Juss. - Basellaceae

Anredera cordifolia (Ten.) van Steenis

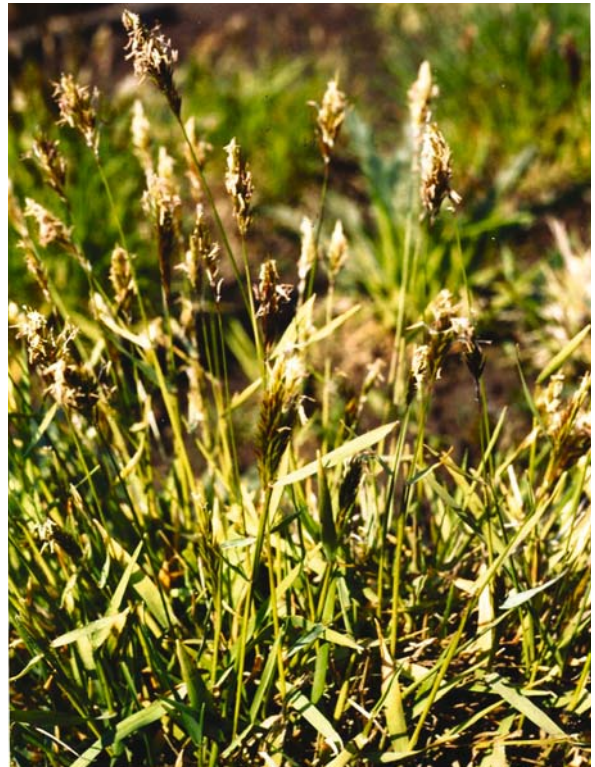
Synonyms ▶ *Boussingaultia cordifolia* Ten.

Common Names ▶ bridal wreath, cascade creeper, Madeira vine; *Argentina*: papilla, zarza; *Brazil (Portuguese)*: bertalha; *French*: patae d'Amérique; *German*: Madeira Wein, Peru-Portulak, Resedenwein; *Spanish*: enredadera del mosquito, parra de Madeira, Madeira vine

Usage ▶ spice (sporadically)

Parts Used ▶ leaf

Distribution ▶ subtropical S America: Paraguay, S Brazil, N Argentina, native in Iberia, France, Malta



■ **Anthoxanthum odoratum**, flowering

Erhardt et al. 2002; Hanelt 2001; Haumann 1925

Anthadenia sesamoides Lem.

➤ *Sesamum indicum* L.

Anthemis nobilis L.

➤ *Chamaemelum nobile* (L.) All.

ANTHOXANTHUM L. - Poaceae (Gramineae)

Anthoxanthum odoratum L. ■

Common Names ▶ scented vernal grass, sweet vernal grass; *French*: flouve odorante, chiendent odorante; *German*: Gewöhnliches Ruchgras; *Italian*: paleino odoroso, paléo odorosa; *Russian*: kolosok

duschistyy; *S Africa*: heuning gras; *Spanish*: alesta olorosa, grama de olor, grama olorosa

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ Europe, Turkey, Caucasus, W, E Siberia, C Asia, NW Africa; native in N America, Australia, Tasmania

Aichele/Schwegler 5, 1996; Ashton/Davies 1962; Chamisso 1987; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Heeger/Poethke 1954; Hiller/Melzig 1999; Rättsch 1998; Schnelle 1999; Schönfelder 2001; Seidemann 1993c; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

ANTHRISCUS Pers. - Chervil - Apiaceae (Umbelliferae)

Anthriscus cerefolium (L.) Hoffm.

Synonyms ▶ *Anthriscus cerefolium* (L.) Hoffm. var. *sativus* (Lam.) Endl., *Scandix cerefolium* L.

Common Names ▶ chervil, charviel, garden chervil; *Ara-bic*: maqdunis afranji; *Chinese*: san lo-po; *Dutch*: kervel; *French*: cerfeuil, cerfeuil cultivé; *German*: Deutscher Kerbel, Gartenkerbel, Kerbel, Körbel, Kufel; *Italian*: cerfoglio; *Portuguese*: cerefólio; *Russian*: kerbel, kun'r, snedok, *Spanish*: cerefolio, parifollo; shurnizo

Usage ▶ spice; **product**: essential oil

Parts Used ▶ fresh herb

Distribution ▶ Europe, Turkey, N Iraq, Caucasus, Iran, C Asia, N Africa, Libya, cultivated in many countries (garden)

Berger 4, 1954; Bilgri/Adam 2000; Bois 1934; Bremness 2001; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Farrell 1985; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Lemberkovics et al. 1994; Melchio/Kastner 1974; Petri et al. 1994; Philisoph-Hadas et al. 1993; Pochljobkin 1974, 1977; Pruthi 1976; Robbins/Greenhalgh 1979; Rosengarten 1969; Schönfelder 2001; Schultze-Motel 1986; Šedo/Krejča 1993; Seidemann 1993c; Seidemann/Siebert 1987; Siewek 1990; Simandi et al. 1996; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Wiersema/León 1999; Zeven/de Wet 1982

Anthriscus cerefolium (L.) Hoffm. var. *sativus* (Lam.) Endl.

▶ *Anthriscus cerefolium* (L.) Hoffm.

Anthriscus sylvestris (L.) Hoffm.

Common Names ▶ cow parsley, Queen Anne's lace, woodland chervil; *German*: Gewöhnlicher Wiesenerkerbel

Usage ▶ pot-herb

Parts Used ▶ young leaf

Distribution ▶ Europe, N Africa, Caucasus, Siberia; native in N America

Erhardt et al. 2002; Facciola 1990; Hjanelt 2001; Small 1997

Anthrophyllum pinnatum (Lam.) Clarke

▶ *Polyscias cumingiana* (Presl.) F.-Villar

ANTIDESMA L. - Euphorbiaceae

Antidesma acidum Ruiz

▶ *Antidesma ghaesembilla* Gaertn.

Antidesma bunius (L.) Spreng.

Synonyms ▶ *Antidesma dallachyanum* Baill., *Antidesma rumphii* Tulasne, *Stilago bunius* L.

Common Names ▶ Chinese laurel, Guinese laurel, currant tree, salamander tree; *French*: antidesme; *German*: Lorbeerblättriger Flachsbaum, Salamanderbaum; *India*: amati, anepu, nolaiali; *Javanese*: boeni, buni, buneh; *Indonesian*: daoen hoeni; *Malaysian*: berunai, buni, lundoh, lundu; *Pilipino*: bignai, bünde, dokdoko, isip; *Spanish*: bignai; *Vietnamese*: chói mõi, liên tu

Usage ▶ spice (rarely)

Parts Used ▶ leaf

A

Distribution ► Himalayas, India, Sri Lanka, SW China, Malaysia, Philippines; Australia: Queensland

Note ► The plant in Malaysia elsewhere cultivated for its fruits.

Arora/Pandey 1996; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Ochse et al. 1961; Schultze-Motel 1986; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982



Antidesma dallachyanum Baill.

► *Antidesma buniis* (L.) Spreng.



Antidesma ghaesembilla Gaert.

Synonyms ► *Antidesma acidum* Ruiz, *Antidesma pubescens* Roxb.

Common Names ► black currant, chinese laurel; *German*: Antidesmablätter; *Hindi*: januprulisaru, umtao; *India*: januprulisaru, pullamurasi gida, umtao; *Java*: dëmpul, sepat; *Malaysian*: gunchak, gucek, gunchin; *Pilipino*: banyuyo; *Sumatra*: kunchir; *Thai*: mao soi

Usage ► spice, pot-herb

Parts Used ► leaf

Distribution ► Asia: India, Nepal, China, Bhutan, Myanmar, Sri Lanka, Philippines, Java; tropical Africa, cultivated in the Tropics

Arora/Pandey 1996; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993; Täufel et al. 1993; Usher 1968; Wiersema/León 1999



Antidesma pubescens Roxb.

► *Antidesma ghaesembilla* Gaertn.



Antidesma rumphii Tulasne

► *Antidesma buniis* (L.) Spreng.

APIUM L. - Celery - Apiaceae (Umbelliferae)



Apium ammi Crantz

► *Ammi majus* L.



Apium anisum (L.) Crantz

► *Pimpinella anisum* L.



Apium celleri Gaertn.

► *Apium graveolens* L.



Apium crispum Mill.

► *Petroselinum crispum* (Mill.) Nym.



Apium dulce Mill.

► *Apium graveolens* L.



Apium graveolens L.

Synonyms ► *Apium cellerie* Gaert., *Apium dulce* Miller, *Apium maritimum* Salisb.

Common Names ► celery; *Arabic*: krafis; *Chinese*: qin cai; *Dutch*: selderij; *French*: céleri; *German*: (Echter) Sellerie, Eppich, Stangensellerie; *Hindi*: shalari; *India*: ajmud; *Italian*: apio, sedano, sedano da coste; *Japanese*: oranda mutsuba; *Korean*: patminari; *Portuguese*: aipo, aipo hortense; *Russian*: sel'derej, sellerej, duschistaja petruschka; *Slovakian*: zeler; *Spanish*: apio, apio blanco, apio de tallo

Usage ► spice, pot-herb, flavoring for salt and liqueurs; **product**: essential oil (fruit)

Parts Used ► leaf seed: for spice salt (celery salt)

Distribution ► W, C Europe, Caucasus to W Himalayas and C Asia, Turkey, Levante, Iraq, Iran, Madeira, N Africa; native, cultivated worldwide

Note ► *Apium graveolens* L. var. *dulce* (Mill.) Pers. = German: Bleichsellerie, Stangen- or Stielsellerie.

Aichele/Schwegler 3, 1995; Bärtels 1997; Bartschat/Mosandl 1997; Beier/Oertli 1983; Beier et al. 1983; Bendel 2002; Berger 4, 1954; Bjeldanes/Kim 1978; Bois 1934; Bosabalidis 1996; Bremness 2001; Cheers 1998; Davidson 1999; Dovicovico et al 2004; Dudtschenko et al. 1989; Duke et al. 2003; Farrell 1985; Fehr 1979; Habegger/Schnitzler 2000; Hager 4, 1992; Hanelt 2001; Heeger 1956; Helm 1972; Hiller/Melzig 1999; Hoppe 1949; Ilyas 1980; v. Koenen 1996; Körber-Grohne 1989; MacLeod/James 1989; MacLeod et al 1988; Melchior/Kastner 1974; Morris/Mackley 1999; Newall et al. 1996; Nigg et al. 1997; Opdyke 1974a; Philippe et al. 2002; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rao et al. 2000; Rosengarten 1969; Roth/Kormann 1997; Schenck/Naundorf 1966; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sfikas 1994; Sharma 2003; Short 1979; Siemonsma/Piluek 1993; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uhlig et al. 1987; Villamar et al. 1994; Wassenhove et al. 1990; Wiersema/León 1999; Zeven/de Wet 1982



Apium graveolens L. var. rapaceum (Mill.)

Gaudin

Synonyms ▶ *Apium rapaceum* Mill.

Common Names ▶ celeriac, turnip rooted celery, root celery; *Arabic*: cherafes; *Chinese*: gen qin cai; *Dutch*: knolselderij; *French*: céleri rave, céleri tubéreux, ache-douce; *German*: Knollensellerie, Wurzel-sellerie; *Italian*: sedano rapa; *Japanese*: mitsuba, seruiatku; *Malaysian*: selderi; *Portuguese*: aipo de raíz, aipo de cabeça; *Russian*: sel'derej korne-plodnyj; *Spanish*: apio de bulbo, apio nabo, apio rábano

Usage ▶ spice; flavoring in salads, soups or vegetable dishes, food (vegetable)

Parts Used ▶ tuber; leaf: used dried for spice salt

Distribution ▶ mainly cultivated in C, E Europe, the Netherlands for its tuber

Aichele/Schwegler 3, 1995; Bärtels 1997; Bendel 2002; Farrell 1985; Hager 4, 1992; Hanelt 2001; Morris/Mackley 1999; Norman 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shiva et al. 2002; Short 1979; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999; Wüstenfeld/Haensel 1964



Apium graveolens L. var. secalinum Alef.

Common Names ▶ Chinese celery, leaf celery, small-age, soup celery; *French*: céleri couper; *German*: Sellerie, Blattsellerie, Schnittsellerie; *Indonesian*: selederi; *Italian*: sedanino, sedano da erbucce, sedano da taglio; *Malaysian*: daun sop, selederi; *Pil-*

ipino: kintsay; *Russian*: sel'derej listovoj; *Spanish*: apio de cortar, apio pequeño; *Thai*: khen chaai; phak chee lom

Usage ▶ spice

Parts Used ▶ leaf, tuber

Distribution ▶ only cultivated

Aichele/Schwegler 3, 1995; Bärtels 1997; Bosabalidis 1996; Erhardt et al. 2002; Fehr 1974; Habegger/Schnitzler 2000; Hager 4, 1992; Hanelt 2001; Hutton 1998; Pino et al. 1997; Seidemann 1993c; Seidemann/Siebert 1987; Short 1979; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999;



Apium involuncratum Roxb. ex Flem.

▶ *Trachyspermum roxburghianum* (DC.) Craib



Apium latifolium Mill.

▶ *Petroselinum crispum* (Mill.) Nym. convar. *radicosum* (Alef.) Danert



Apium maritimum Salisb.

▶ *Apium graveolens* L.



Apium petroselinum L.

▶ *Petroselinum crispum* (Mill.) Nym. convar. *radicosum* (Alef.) Danert



Apium rapaceum Mill.

▶ *Apium graveolens* L. var. *rapaceum* (Mill.) Gaudin



Apium tuberosum Bernh. ex Rchb.

▶ *Petroselinum crispum* (Mill.) Hoffm. convar. *radicosum* (Alef.) Danert



Apium visnaga (L.) Crantz

▶ *Ammi visnaga* (L.) Lam.

A

**AQUILARIA Lam. -
Thymelaeaceae** **Aquilaria agallocha** Roxb.

Common Names ▶ agar wood, eagle wood; *Arabic*: oud kameira; *German*: Adlerholz

Usage ▶ condiment (ingredients of “Rasel-Hanout”)

Parts Used ▶ fragrant wood

Distribution ▶ Orient, Morocco

Davidson 1999; Ding Hou 1964; Hepper 1992; Rättsch 1998

 Aquilaria khasiana H. Hallier

Common Names ▶ Khasi-eagle wood; *German*: Khasi-Adlerholz

Usage ▶ condiment (rarely)

Parts Used ▶ fragrant wood

Distribution ▶ India: Assam: Khasi mountains

Hepper 1992

 Aquilaria malaccensis Lam.

Common Names ▶ Indian aloewood, Malacca eagle wood; *German*: Malacca-Adlerholz; *SE Asia*: alim, balok

Usage ▶ condiment (rarely)

Parts Used ▶ fragrant wood

Distribution ▶ Myanmar to Malacca, Malaysia Arch.

Note ▶ The wood has an inferior quality. It is the aloe of the bible.

Burkill 1966; Ding Hou 1964; Hanelt 2001; Hepper 1992; Rättsch 1998; Wiersema/León 1999

**ARACHIS L. - Peanut -
Fabaceae (Leguminosae)** **Arachis hypogaea** L.

Common Names ▶ goober, ground nut, monkey nut, peanut; *Brazil (Portuguese)*: amendoim mandobi,

manobi; *Chinese*: chang slang kuo, fan tou, luo hua shoag, tu tou; *French*: arachide, cacahouète; *German*: Erdnuss; *Hindi*: mung phali; *India*: mon-gphali; *Italian*: arachide; *Japanese*: yatcha-sei, ji-mami; *Korean*: tangkhong; *Mexico*: cacahuete; *Malaysian*: kacang china, kacang gori; *Pilipino*: batung-china, mani; *Portuguese*: amendoine; *Russian*: arachis, zeml anojorech; *Spanish*: avellana americana, cacahuete, mani

Usage ▶ spice (meat)

Parts Used ▶ nut (fatty oil)

Distribution ▶ origin tropical S America; only cultivated in temperate regions S America and Africa

Blancke 2000; Cheers 1998; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Menninger 1977; Neuwinger 1999; Schenck/Naundorf 1966; Schönfelder 2001; Schultze-Motel 1986; Täufel et al. 1993; Zeven/de Wet 1982

 Aralia quiffoylei Cogn. et Marché

Polyscias quiffoylei (Cogn. et Marché) Bailey

 Archangelica officinalis Hoffm

▶ *Angelica archangelica* L.

**ARCHIDENDRON F. Muell. -
Fabaceae (Leguminosae)** **Archidendron fagifolium** (Blume ex Miq.) I. Nielson

Synonyms ▶ *Pithecellobium angulatum* auct. non Benth., *Pithecellobium fagifolium* Blume ex Miq., *Pithecellobium mindanaense* Merr.

Common Names ▶ *Indonesian*: jengkolan, *Javanese*: jer-ing goleng; *Pilipino*: kulikul, lalatan, tomanag

Usage ▶ spice (locally)

Parts Used ▶ seed

Distribution ▶ Thailand, Myanmar, Borneo, Java (var. *borneense* Nielsen), Philippines (var. *Mindanaense* [Merr.] Nielsen), Sumatra (var. *fagifolium*)

Guzman/Siemonsma 1999; Oyen/Dung 1999

 Archidendron jiringa (Jack) I. Nielsen

Synonyms ► *Mimosa jiringa* Jack, *Pithecellobium jiringa* (Jack) Prain ex King, *Pithecellobium lobatum* Benth.

Common Names ► jering tamarind; *German*: Malayischer Affenherring; *Indonesian*: jengkol, jering; *Malaysian*: jiring, djereng; *Thai*: jawang nieng

Usage ► condiment, flavoring

Parts Used ► seed (cooked green and ripe)

Distribution ► India, Myanmar, Malaysia

Bois 1934; Erhardt et al. 2000, 2002; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

**ARDISIA Sw. -
Myrsinaceae**
 Ardisia boissierii A. DC.

► *Ardisia squamulosa* Presl

 Ardisia drupacea (Blanco) Merr.

► *Ardisia squamulosa* Presl.

 Ardisia humilis auct., non Vahl

► *Ardisia squamulosa* Presl

 Ardisia squamulosa Presl

Synonyms ► *Ardisia boissieri* A. DC., *Ardisia drupacea* (Blanco) Merr., *Ardisia humilis* auct., non Vahl.

Common Names ► spicy berry; *German*: Schuppige Spitzenblume; *Pilipino*: babagion, butau, tagpo

Usage ► flavoring (fish)

Parts Used ► flower, fruit (cooked)

Distribution ► endemic(?) Philippines

Guzman/Siemonsma 1999; Hoppe 3, 1987; Oyen/Dung 1999

 Arduina edulis Spreng

► *Carissa edulis* Vahl

**ARISTOLOCHIA L. -
Aristolochiaceae**
 Aristolochia hastata Nutt.

► *Aristolochia serpentaria* L.

 Aristolochia officinalis Nees

► *Aristolochia serpentaria* L.

 Aristolochia serpentaria L.

Synonyms ► *Aristolochia hastata* Nutt., *Aristolochia officinalis* Nees

Common Names ► Virginia serpentry, Virginia snake-root; *German*: Virginische Schlangenzwurzel; *India*: sarpmoola; *Russian*: zmejuyj koren

Usage ► spice, flavoring of liqueurs and bitter, e.g. angostura, boonekamp

Parts Used ► rhizom

Distribution ► N America: Florida, Virginia, cultivated in India

Charalambous 1994; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Seidemann 1993c; Wüstenfeld/Haensel 1964

**ARMENIACA Scopoli -
Rosaceae**
 Armeniaca dasycarpa (Ehrh.) Borkh.

Synonyms ► *Armeniaca fusca* Turp. et Poit. ex Duhamel, *Prunus dasycarpa* Ehrh., *Prunus nigra* Desf.

Common Names ► black apricot, purple apricot; *German*: Rauhfrüchtige Marille, Schwarze Marille; *Russian*: abrikos tschernij, abrikos volosistoplodnyj

Usage ► spice, condiment

A

Parts Used ▶ fruit

Distribution ▶ Asia: Iran Afghanistan, Kashmir, Europe: France to Ukraine, Transcaucasia, southern USA

Note ▶ The plant is a spontaneous hybrid of *Armeniaca vulgaris* Lam. x *Prunus cerasifera* Ehrh.

Hanelt 2001; Schultze-Motel 1986



Armeniaca fusca Turp. et Poit. ex Duhamel

▶ *Armeniaca dasycarpa* (Ehrh.) Borkh.



Armeniaca vulgaris Lam. ex **Prunus cerasifera** Ehrh.

▶ *Armeniaca dasycarpa* (Ehrh.) Borkh.

ARMORACIA Gaertn., B. Mey. et Schreb. - Horseradish - Brassicaceae (Cruciferae)



Armoracia lapathifolia Gilib.

▶ *Armaoracia rusticana* P. Gaertn.



Armoracia rusticana Gaertn. et B. Mey. et Scherb.

Synonyms ▶ *Armoracia lapathifolia* Gilib., *Cochlearia armoracia* Lam., *Nasturtium armoracia* (L.) Fries

Common Names ▶ horseradish; *Arabic*: feegel, fidgel; *Chinese*: la gen; *Dutch*: mierikswortel; *French*: cran, cranson, mérédic, raifort sauvage; *German*: Bauernsenf, Meerrettich, Mährrettich, Kren (in Austria, S Germany and Slavonic countries), Pfefferwurzel; *Italian*: barbaforte, cren, rafano rusticano; *Portuguese*: armorácia, rábano picante, rábano rusticano, raiz forte; *Russian*: chren; *Slovakian*: chren; *Spanish*: rábano picante, rábano rustico, rábano silvestre

Usage ▶ spice

Parts Used ▶ (rasped) fresh root

Distribution ▶ possible origin in E Europe, Russia, native in Europe, Caucasus, N America; widely cultivated in many countries

Aichele/Schwegler 3, 1995; Bendel 2002; Bois 1934; Bremness 2001; Cheers 1998; Courter/Rhodes 1969; Davidson 1999; Dudtschenko et al. 1989; Due et al. 2003; Farrell 1985; Galacci 1989; Gilbert/Nursten 1972; Grob/Matile 1980; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hansen 1974; Herrmann 1997b; Hiller/Melzig 1999; Hoppe 1949; Kotow 1978; Kraxner et al. 1987; Lin et al. 2001; Melchior/Kastner 1974; Morris/Mackley 1999; Newall et al. 1996; Pochljobkin 1974, 1977; Pschyrembel 1998; Pursglove 1968; Rhodes et al. 1969; Rosengarten 1969; Sahasrabudhe/Mullin 1980; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Usher 1968; Weber 2002; Wiersema/León 1999; Zeven/de Wet 1982; Winter/Hornborstel 1993; Wyk et al. 2004



Armoracia sisymbrioides (DC.) N. Busch ex Ganesch.

Common Names ▶ Russian wild horseradish; *German*: Wilder russischer Meerrettich; *Russian*: chren guljavnikovyi, chren lugovoi

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ SW and E Siberia to Sakhalin, also cultivated in gardens

Hager 4, 1992; Hanelt 2001; Mansfeld 1986; Schultze-Motel 1986; Teuscher 2003

ARNICA L. - Asteraceae (Compositae)



Arnica chamissonis Less.

Synonyms ▶ *Arnica foliosa* Nutt.

Common Names ▶ leafy leopardsbane; *German*: Amerikanische Arnika

Usage ▶ spice (flavoring) for liqueurs and bitters (Abtei, Aromatique, Kartaeser)

Parts Used ▶ flower

Distribution ▶ Alaska, Canada, USA: NW, SW, California, Rocky mountains, also cultivated in many countries

Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Schönfelder 2001; Schultze-Motel 1986; Turova et al. 1987; Willuhn 1985a; Willuhn/Leven 1991

**Arnica foliosa** Nutt.

➤ *Arnica chamissonis* Less.

**Arnica montana** L.

Common Names ▶ European arnica, leopards bane; mountain arnica, mountain tobacco; *French*: arnica, fleur d'arnica, panacée des Montagnes; *German*: Arnika; Bergwohlverleih, Echte Arnika; *India*: arnica; *Italian*: arnica, fiore de arnica; *Russian*: arnica gornaja; *Spanish*: árnica de montaña, flor de árnica

Usage ▶ spice, flavoring for liqueurs and bitters; **product**: essential oil: arnica (flower) oil, celtic nard oil

Parts Used ▶ flower

Distribution ▶ Europe (Alps): Austria, Germany, Switzerland, France

Note ▶ In Austria, Germany and Switzerland the plant has been placed under nature protection.

Aichele/Schwegler 4, 1995; Berger 1, 1949; Crocilius 1956; Coiciu/Rasz (no year); Dudtschenko et al. 1989; Erhardt et al. 2002; Galambosi et al. 1998; Hager 4, 1992; Hahn/Mayer 1985; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Merfort/Wendisch 1988; Meyer/Berge 1991; Meyer-Chlond 1999; Newall et al. 1996; Pschyrembel 1998; Roth/Kormann 1997; Saukel 1984; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Turova et al. 1987; Willuhn 1981, 1983, 1991; Wüstenfeld/Haensel 1964; Wyk et al. 2004

ARONIA Medik. - chokeberry - Rosaceae

**Aronia alnifolia** Nutt.

➤ *Amelanchier alnifolia* (Nutt.) Nutt.

**Aronia melanocarpa** (Michx.) Elliot

Common Names ▶ black chokeberry; *French*: aronica du noir; *German*: Apfelbeere; *Russian*: rjabina cernoplodnaja

Usage ▶ condiment, especially for sauces of venison,

Parts Used ▶ fruit

Distribution ▶ E Canada, NE, NCE, SE USA; cultivated in E Europe, Germany

Erhardt et al. 2002; Hanelt 2001; Hirvi/Honkanen 1985; Lehmann 1982, 1990; Oszmianski/Sapis 1988; Plocharski/Smolarz 1987; Rosa/Krugty 1987; Schultze-Motel 1986; Seidemann 1993c, e; Wilska-Jeszka et al. 1988

ARTABOTRYS R.Br. - Tail grape - Annonaceae

**Artabotrys hexapetalus** (L.f.) Bhandri

Synonyms ▶ *Artabotrys odoratissimus* R.Br. ex Ker-Gawl., *Artabotrys uncinatus* (Lam.) Merr.

Common Names ▶ tail grape; *German*: Falscher Ylang-Ylang; *India*: madan mast, manoranjitan; *Sanskrit*: harachampala

Usage ▶ flavoring (tea); **product**: essential oil

Parts Used ▶ flower

Distribution ▶ S India, Sri Lanka

Burkill 1966; Erhardt et al. 2002; Hanelt 2001; Uphof 1968; Usher 1974; Wealth of India 1, 1984

**Artabotrys odoratissimus** R.Br. ex Ker-Gawl

➤ *Artabotrys hexapetalus* (L.f.) Bhandri

**Artabotrys uncinatus** (Lam.) Merr.

➤ *Artabotrys hexapetalus* (L.f.) Bhandri

**Artabotrys scytophyllus** (Diels) Cavaco et Kerandren

Common Names ▶ tail grape; *German*: Lederblättrige Klimmtraube

Usage ▶ spice for sauces, flavoring (flower)

Parts Used ▶ herb

Distribution ▶ SE Asia; Madagascar also cultivated

A

 Artanthe adunca (L.) Miq.➤ *Piper aduncum* L.**ARTEMISIA L. - Mugwort - Asteraceae (Compositae)** **Artemisia abrotanum** L.

Common Names ▶ lady's love, old man storenwood, southern (worm) wood; *Arabic*: chissum; *Dutch*: citroenkruid; *French*: abrotone, armoise, aurone, aurone des jardinsaurone mâle, citronelle aurone, ivrogne, garde robes; *German*: Eberraute, Eberreis, Gartenheil, Zitronenkraut; *Italian*: abrotano; *Portuguese*: abrotano; *Russian*: boshë; *Spanish*: abrotano macho, ajenjo común, boja

Usage ▶ spice, flavoring and in liqueur manufacture

Parts Used ▶ herb

Distribution ▶ S, SE Europe, W Asia, Siberia, also cultivated

Aichele/Schwegler, 4, 1995; Bärtels 1997; Bilgri/Adam 2000; Bois 1934; Bremness 2001; Cheers 1998; Clair 1961; Davidson 1999; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Neumerkel 2001; Roth/Korzmann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Vostrowsky et al. 1984; Wiersema/León 1999; Wright 2000; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

 Artemisia absinthium L.

Synonyms ▶ *Artemisia officinale* Brot., *Artemisia vulgare* Lam.

Common Names ▶ absinthe, common wormwood, mugwort, warmnot; *Arabic*: afsantin, eshbet mariam, mamitsa, shadjrat mariam, shi rumi; *Brazil (Portuguese)*: absinthe losna; *Dutch*: absint-alsem; *French*: absinthe, grande absinthe, armoise absinthe; *German*: Absinth, Bitterer Beifuß, Wermut; *India*: vilayati afsantin; *Italian*: assenzio, assenzio Romano, assenzio maggiore; *Korean*: pukyakssuk; *Portuguese*: absinto, losna; *Russian*: polyn'gor'kaja, wermut; *Spanish*: absintio, ajenjo, ajenja mayor

Usage ▶ spice, flavoring; **product**: vermouth bitters and absinthe liqueur and aperitifs

Parts Used ▶ herb

Distribution ▶ temperate Eurasia; N, NW Africa, adventive in N and S America, cultivated in the Mediterranean area, in the USA (Indiana, Michigan), Kashmir and S Siberia, also in C, S Mexico, Brazil, Europe

Aichele/Schwegler 4, 1995; Alberts/Muller 2000; Ariño et al. 1999; Arnold 1989; Bärtels 1997; Berger 4, 1954; Bielenberg 2002; Bois 1934; Böttchers/Günther 2002; Bornot 1968; Bremness 2001; Cheers 1998; Chialva et al. 1983; Clair 1961; Coiciu (no year); Dastur 1954; Davidson 1999; Dudtschenko et al. 1989; Erichsen-Brown 1989; Gebhardt 1977b; Giebelmann 2001; Gurim-Fakim/Brendler 2004; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hese 2002; Hiller/Melzig 1999; Hoppe 1949; Hose 2002; Hutton 2002; Kennedy et al. 1993; Lachenmeier et al. 2004; Larkcom 1991; Neumerkel 2001; Nin et al. 1995; Pochljobkin 1974, 1977; Pschyrembel 1998; Rättsch 1995; Roth/Korzmann 1997; Schneider/Mielke 1978, 1979; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Staesche 1972; Stahl/Gerard 1982; Tateo/Riva 1991; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Turova et al. 1987; Ubillos 1989; Villamar et al. 1994; Vostrowsky et al. 1981; Wiersema/León 1999; Wright 2002; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

 Artemisia afra Jacq. ex Willd.

Common Names ▶ African wormwood, *Afrikaans*: wildeals; *French*: armoise d'Afrique; *German*: Afrikanischer Wermut

Usage ▶ flavoring; **product**: vermouth bitters

Parts Used ▶ herb

Distribution ▶ E Africa, from Ethiopia to S Africa

Wyk et al. 2004

 Artemisia alba Turra

Synonyms ▶ *Artemisia camphorata* Vill.

Common Names ▶ camphor absinthe; *French*: armaise camphrée; *German*: Kampf-Wermut; *Italian*: abrotano camforata

Usage ▶ spice, flavoring

Parts Used ▶ herb

Distribution ▶ S and S Central Europe, NW Africa

Note ▶ Cultivated in Germany in the 16th Century.

Berger 4, 1954; Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999; Wright 2002



Artemisia arborescens L.

Common Names ► silver wormwood, tree wormwood; *Arabic*: shagaret mariam, shiba; *French*: absinthe arborscente; *German*: Baum-Wermut; *Cyprus*: genia ou gerru

Usage ► spice

Parts Used ► herb

Distribution ► N Africa, E Mediterranean Region cultivated in gardens

Bremness 2001; Hanelt 2001; Schultze-Motel 1986; Wright 2002



Artemisia balchanorum H. Krasch

Synonyms ► *Serephidium balchanorum* (Krasch) Polj.

Common Names ► *German*: Zitronen-Wermut; *Russian*: polyn' balchanov, polyn' limmonaja

Usage ► spice, pot-herb

Parts Used ► herb

Distribution ► Turkmenia; cultivated: Ukraine, Georgia, Armenia, Moldavia

Note ► Various cultivars are existing herbs.

Hager 3, 1992; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003



Artemisia balsamita Willd.

► *Artemisia pontica L.*



Artemisia camphorata Vill.

► *Artemisia alba Turra*



Artemisia dracunculus L.

Synonyms ► *Artemisia glauca* Pall.

Common Names ► tarragon, dragon sagewort, French tarragon; *Arabic*: tarkhun; *Chinese*: xai ye qing hao; *Dutch*: dragon, estragon; *French*: dragon,

estragon; *German*: Bertram, Bertramskraut, Dragun-Wermut, Eierkraut, Estragon, Kaisersalat; *Italian*: dragone, dragoncello, estragone, herbe dragonne, targone; *Japanese*: esutoragon; *Portuguese*: estragão; *Russian*: draguntrawa, estragon, polyn' stragon, stragon, tarchun; *Spanish*: dracon-cillo, estragón

Usage ► spice, flavoring for salads, cucumber, tomato preserves, soups etc., manufacture of tarragon vinegar

Parts Used ► herb

Distribution ► Europe, W, E Siberia, C Asia, W Himalayas, Mongolia, China, Alaska, Canada, USA; native in France, S Europe, Balcan; cultivated in many countries (garden)

Note ► f. *dracunculus* = German or French Estragon; f. *redowskii* hort = Russian dragon.

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 4, 1954; Bilgri/Adam 2000; Bois 1934; Bremness 2001; Burkill 1966; Cheers 1998; Clair 1961; Coiciu/Rasz (no year); Cotton et al. 1991; Davidson 1999; Dudtschenko et al. 1989; Erichsen-Brown 1989; Farrell 1985; Gebhardt 1977a; Guzman/Siemons 1999; Hager 4, 1992; Hagmann/Knauss 1988; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Mackay/Kitto 1987; Melchior/Kastner 1974; Neumerkel 2001; Pochljobkin 1974, 1977; Prakash 1990; Rosengarten 1969; Rosenthal 1954; Roth/Korzmam 1997; Satar 1986; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993 c; Seidemann/Siebert 1987; Small 1997; Siewek 1990; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Thieme/Nguyen Thi Tam 1968 a, b; Tucker 1986; Tunman/Mann 1968; Ubillos 1989; Uhl 2000; Vostrowsky et al. 1981a, b; Wealth of India 1, 1948; Werker et al. 1994; Wiersema/León 1999; Wright 2002; Zeven/de Wet 1982



Artemisia genipi Weber

Common Names ► *French*: genépi noir; *German*: Schwarze Edelraute; *Italian*: genepi

Usage ► spice, flavoring for herb liqueurs

Parts Used ► leaf

Distribution ► C Europe, S Europe especially Italy, SE Europe, SW Europe

Erhardt et al. 2002; Wiersema/León 1997; Wright 2002

A

 Artemisia glacialis L.

Common Names ▶ glacier wormwood; *German*: Gletscher-Edelraute, Gletscher-Beifuß; *Italian*: genipi

Usage ▶ spice, flavoring for herb liqueurs

Parts Used ▶ leaf

Distribution ▶ Europe: Alps of France, N Italy, Switzerland

Erhardt et al. 2002; Hoppe 1949; Wright 2002

 Artemisia glauca Pall.

➤ *Artemisia dracunculus* L.

 Artemisia herba-alba Asso

Common Names ▶ white mugwort; *German*: Weißer Wermut

Usage ▶ spice (rarely)

Parts Used ▶ leaf

Distribution ▶ Palestine, Israel, Arabia: desert regions

Note ▶ The plant is the wormwood of the bible.

Hepper 1992; Mabberly 1997; Rättsch 1998; Wright 2002

 Artemisia indica Willd.

Synonyms ▶ *Artemisia vulgaris* L. var. *indica* (Willd.) Maxim.

Common Names ▶ Indian mugwort; *German*: Indischer Beifuß, Indisches Moxakraut

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ S, E Asia: Himalayas, Maabmar, Sri Lanka, China, Korea, Taiwan, Indochina, Malaysia, Indonesia cultivated mainly in gardens

Hanelt 2001; Neumerkel 2001; Teuscher 2003; Wright 2002

 Artemisia judaica L.

Common Names ▶ *French*: graines à vers, zédoire; *German*: Palästinenser Beifuß

Usage ▶ spice, flavoring for liqueurs

Parts Used ▶ herb

Distribution ▶ N Africa, Egypt, Arabia, Israel, cultivated E Mediterranean region

Hanelt 2001; Hepper 1992; Ravid et al. 1994; Schultze-Motel 1986; Täufel et al. 1993; Tucker 1986; Uphof 1968; Usher 1974; Zeven/de Wet 1982

 Artemisia lactiflora Wall. ex DC.

Common Names ▶ white mugwort; *French*: armoise à fleurs laiteuses; *German*: Weißer Chinabeifuß, Weißer Beifuß

Usage ▶ spice, flavoring

Parts Used ▶ herb, leaf

Distribution ▶ W China

Bremness 2001; Erhardt et al. 2002

 Artemisia laxa (Lam.) Fritsch

➤ *Artemisia mutellina* Vill.

 Artemisia ludoviciana Nutt.

Synonyms ▶ *Artemisia purshiana* Besser

Common Names ▶ cudweed, western mugwort, white sage; *German*: Mexikanischer Wermut, Silberraute, Weiße Raute; *Mexico*: estafiate

Usage ▶ spice, used like absinthe

Parts Used ▶ herb

Distribution ▶ Alaska, W Canada; USA, Mexico, also cultivated

Berger 4, 1954; Bremness 2001; Erichsen-Brown 1989; Hanelt 2001; Neumerkel 2001; Rättsch 1998; Tull 1999; Villamar et al. 1994; Wiersema/León 1999

 Artemisia maritima L.

Common Names ▶ sea wormwood; *French*: absinthe de mer, armoise maritime; *German*: Strandbeifuß, Meerbeifuß, Meerwermut; *Hindi*: kirmala, kirmani; *India*: gandha; *Korean*: santhoninssuk;

Sanskrit: cauhaba, kitamari; *Spanish:* ajenjo marino

Usage ▶ spice, flavoring; **product:** santonine

Parts Used ▶ herb

Distribution ▶ Europe: coasts from the Faroes to Scandinavia and the Baltics

Berger 4, 1954; Coiciu/Racz (no year); Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hoppe 1949; Jeffrey 1965; Schultze-Motel 1986; Sharma 2003; Täufel et al. 1993; Tucker 1986; Wiersema/León 1999; Zeven/de Wet 1982

Artemisia mexicana Willd.

Common Names ▶ Mexican mugwort; *German:* Mexikanischer Beifuß; *Guatemala:* tsin tsin; *Mexico:* estafiata, artamisa Méjico

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ SW USA to Mexico, also cultivated in Mexico

Ochoa/Alonso 1996; Rätsch 1998; Schultze-Motel 1986

Artemisia mutellina Vill.

Synonyms ▶ *Artemisia laxa* (Lam.) Fritsch, *Artemisia splendens* Willd. var. *splendens*, *Artemisia umbelliformis* Lam.

Common Names ▶ alpine wormwood, white genipi; *French:* genépi blanc; *German:* Echte Edelraute, Echter Alpenbeifuß; *Russian:* polyn' al'nijskaja

Usage ▶ spice, flavoring of liqueurs and other drinks

Parts Used ▶ herb

Distribution ▶ Alps and mountains of C Europe, cultivated in C and S Europe

Aichele/Schwegler 4, 1995; Berger 4, 1954; Hanelt 2001; Hoppe 1949; Pochljobkin 1974, 1977; Rey/Slacanin 1999; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Zeven/Zhukovsky 1975

Artemisia officinale Brot.

➤ *Artemisia absinthium* L.

Artemisia ordosica Krasch.

Usage ▶ flavoring; **product:** essential oil

Parts Used ▶ herb

Distribution ▶ N and NW China

Hanelt 2001; Rätsch 1998; Wright 2004

Artemisia pallens Wall. ex DC.

Common Names ▶ *India:* davana; *German:* Blasser Beifuß; *Russian:* polyn' blednejusschtschaja

Usage ▶ spice, flavoring for cake, pastries; **product:** essential oil (davana oil)

Parts Used ▶ herb

Distribution ▶ NE India, N Thailand

Charalambous 1994; Hanelt 2001; Rätsch 1998; Schultze-Motel 1986; Sharma 2003; Shiva et al. 2002; Wealth of India 1, 1948; Wiersema/León 1999; Wright 2002

Artemisia pontica L.

Synonyms ▶ *Artemisia balsamita* Willd.

Common Names ▶ Roman wormwood, small absinth; *French:* absinthe romaine, petite absinthe; *German:* Pontischer Beifuß, Pontischer Wermut, Römischer Beifuß; *Russian:* polyn' pontijskaja, polyn'rumskaja, alekcandrijskaja polyn', tschernomorskaja polyn'

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ S, E and Europe to W Siberia, C Asia, Kazakhstan and NW China; cultivated in France, Italy, Austria, Germany, Switzerland, S Canada and USA

Note ▶ The plant is used like *Artemisia absinthium* L.

Aichele/Schwegler 4, 1995; Berger 4, 1954; Bremness 2001; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Pochljobkin 1974, 1977; Rätsch 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Usher 1974; Wiersema/León 1999

A

 Artemisia princeps *Pamp.*

Common Names ▶ Japanese mugwort, ticed bub; *German*: Japanischer Beifuß

Usage ▶ flavoring, and coloring of rice cakes

Parts Used ▶ leaf

Distribution ▶ Japan

Davidson 1999; Larkcom 1991; Small 1997; Umamo et al. 2000

 Artemisia procera *Willd.*

Common Names ▶ *German*: Rispen-Beifuß, *Russian*: polyn' metel'tschataja

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ former Tatarian SSR

Berger 4, 1954; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Pochljobkin 1974, 1977

 Artemisia purshiana *Besser*

➤ *Artemisia ludoviciana* *Nutt.*

 Artemisia splendens *Willd. var. splendens*

➤ *Artemisia mutellina* *Vill.*

 Artemisia umbelliformis *Lam.*

➤ *Artemisia mutellina* *Vill.*

 Artemisia vallesiaca *All.*

Common Names ▶ alpine wormwood, mountain wormwood, Valais wormwood; *French*: armoise du Valais, pityouda absinthe; *German*: Beng-Genipp, Walliser Beifuß, Walliser Genipp, Walliser Wermut

Usage ▶ flavoring for liqueurs; product of santonine

Parts Used ▶ herb

Distribution ▶ Europe: N Italy, SE France, Switzerland



■ **Artemisia vulgaris**, flowering

Hanelt 2001; Hoppe 1949; Schultze-Motel 1986

 Artemisia verlotiorum *Lamotte*

Common Names ▶ Kamshatka wormwood; *German*: Kamtschatka Beifuß

Usage ▶ flavoring

Parts Used ▶ herb

Distribution ▶ Japan, Kamtschatka, native in EC Europe

Carnat et al. 2001; Erhardt et al. 2002

 Artemisia vulgare *Lam.*

➤ *Artemisia absinthium* *L.*

 Artemisia vulgaris *L.* ■

Common Names ▶ mugwort, motherwort, sagebrush, Sailor's tobacco, wormwood; *Chinese*: ai hao,

bei ai, bai hao, xi ye ai; *French*: armoise commune, couronne de Saint Jean; *German*: Gemeiner Beifuß, Gewürz-Beifuß, Gänsekraut, Wilder Wermut; *Hindi*: dauna, nagdauna; *India*: nilum, nagadamani, titipati; *Italian*: amarella; *Japanese*: yomogi, nishi-yomogo, moxa; *Pilipino*: damong Maria, erbaka, tinisas; *Portuguese*: artemísia; *Russian*: polynobyknovennaja, prostaja polyn, tschernobyl'nik; *Sanskrit*: damanaka, tapodhana; *Spanish*: artemisia, hierba de San Juan; *Vietnamese*: ngai diep, nha ngai, qua su

Usage ▶ spice, flavoring

Parts Used ▶ herb

Distribution ▶ Europe, N, C Asia, adventive in America and Australia; cultivated in W and C Europe, Asia and elsewhere, e.g., in the Philippines, Thailand, Malaysia, Vietnam, China and Brazil

Aichele/Schwegler 4, 1955; Berger 2, 1950; Berger 4, 1954; Burkil 1966; Cheers 1998; Clair 1961; Davidson 1999; Dudtschenko et al. 1989; Dürbeck 1996; Erichsen-Brown 1989; Gebhardt 1977c; Hager 4, 1992; Hanelt 1956, 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Jerkovic et al. 2003; Larkcom 1991; Melchior/Kastner 1974; Michaelis et al. 1982; Nano et al. 1976; Neumerkel 2001; Pochljobkin 1974, 1977; Pschyrembel 1998; Roth/Korzmann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Turova et al. 1987; Villamar et al. 1994; WHO 1990; Wiersema/León 1999; Wright 2002; Wörner et al. 1991c; Wyk et al. 2004; Zeven/de Wet 1982

ARTOCARPUS J.R. Forst. et Forst. - Breadfruit - Moraceae

Artocarpus lakoochus Roxb.

Synonyms ▶ *Artocarpus yunnanensis* Hu

Common Names ▶ monkey, monkey jack, *German*: Lakoocha; *India*: barhal, lakooch, lakeichi; *Malaysian*: tampang, *Thai*: lokhat, mahád

Usage ▶ condiment, compound for some curry mixtures

Parts Used ▶ male inflorescence

Distribution ▶ tropical S Asia: India, Sri Lanka, Myanmar, S China, Thailand, Malaysia, also cultivated

Arora/Pandey 1996; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Thomas 1960; Zeven/de Wet 1982

Artocarpus yunnanensis Hu.

▶ *Artocarpus lakoochus* Roxb.

ASARUM L. - Aristolochiaceae

Asarum canadense L.

Common Names ▶ wild ginger; *German*: Kanadische Haselwurz

Usage ▶ spice (of the native Americans)

Parts Used ▶ rhizom

Distribution ▶ Canada, USA

Note ▶ The rhizome has a flavor and taste of ginger.

Erhardt et al. 2002; Rättsch 1998; Small 1997

Asarum europaeum L.

Common Names ▶ asarabacca, European wild ginger; *French*: asaret d'Europe, cabaret, oreille d'home; *German*: Braune Haselwurz, Gewöhnliche Haselwurz, Hasenpfeffer; *Italian*: asaro baccaro; *Russian*: kopyten'europyekij; *Spanish*: ásarocomún, ásar de Europa

Usage ▶ spice (very rarely)

Parts Used ▶ rhizom

Distribution ▶ S Europe: Iberia, W Siberia, native in C Europe

Aichele/Schwegler 2, 1994; Cheers 1998; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Schnelle 1999; Schönfelder 2001

Asperula odorata L.

▶ *Galium odoratum* (L.) Scop.

A

ASPLENIUM L. – Nest Fern - Aspleniaceae

Asplenium acrobryum *Christ*

Common Names ▶ New Guinea salt fern; *German*: New Guinea Salzfarn

Usage ▶ condiment, spice

Parts Used ▶ plant ash

Distribution ▶ In inland New Guinea

Note ▶ A source of salt.

Croft/Leach 1985

Aster helenium *Scop.*

➤ *Inula helenium* L.

Aster officinalis *All.*

➤ *Inula helenium* L.

ASYSTASIA Bl. - Acanthaceae

Asystasia coromandeliana *Wight ex Nees*

➤ *Asystasia gangetica* (L.) T. Anders

Asystasia gangetica (L.) T. Anderson

Synonyms ▶ *Asystasia coromandeliana* Wight ex Nees, *Justicia gangetica* L.

Common Names ▶ ganges river asystasia, asystasia, Chinese violet; *Congo*: ondoko, ondo; *Pilipino*: asistania zambo angenita

Usage ▶ pot-herb (in India)

Parts Used ▶ leaf

Distribution ▶ India, Orissa, W Bengal; also cultivated, tropical Africa, tropical America cultivated as a medicinal plant

Note ▶ In Kenya, Tanzania and W Africa grown as a traditional leaf vegetable.

Arora/Pandey 1996; Hanelt 2001; Wiersema/León 1999

Asystasia neesiana *Nees*

Synonyms ▶ *Asystasiella neesiana* Lindau

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India: NE region

Arora/Pandey 1996

Asystasiella neesiana *Lindau*

➤ *Asystasia neesiana* Nees

Atalandia hindsii *Oliv. (Champ.)*

➤ *Fortunella hindsii* (Champ. ex Benth.) Swingle

Atalantia polyandra *Ridl.*

➤ *Fortunella polyandra* (Ridl.) Tanaka

Athamantha chinensis *Lour.*

➤ *Cnidium monnieri* (L.) Cuss. ex Juss.

ATHEROSPERMA Lab. - Monimiaceae

Atherosperma moschatum *Lab.*

Common Names ▶ plum nutmeg; *German*: Pflaumenmuskat

Usage ▶ spice, flavoring

Parts Used ▶ seed (bark)

Distribution ▶ Australia, Tasmania

Hoppe 1949; Mabberly 1997; Teuscher 2003

 Athroandra atrovirens (Pax) Pax et Hoffm.

➤ *Erythrococca atrovirens* (Pax) Prain

ATRIPLEX L. - Orach, Saltbush - Chenopodiaceae

 Atriplex canescens (Pursh) Nutt.

Synonyms ▶ *Atriplex nuttallii* S. Wats., *A. occidentalis* Dietr.; *Calligonum canescens* Pursh, *Obione canescens* (Pursh) Moq.

Common Names ▶ hoary salt bush, fourwing salt bush, shad scale, wing scale; *German*: Salzmelde; *Mexico*: chamere, chamizo, laza, nocuana

Usage ▶ condiment; **product**: plant ash

Parts Used ▶ herb

Distribution ▶ W America to Mexico

Note ▶ The plant salt is a substitute for normal salt.

Davidson 1999; Hanelt 2001; Uphof 1968

 Atriplex loccidentalis Dietr.

➤ *Atriplex canescens* (Pursh) Nutt.

Atriplex nuttallii S. Wats.

➤ *Atriplex canescens* (Pursh) Nutt.

AVERRHOA L. - Oxalidaceae

 Averrhoa bilimbi L.

Synonyms ▶ *Averrhoa obtusangula* Stokes, *Blimbigum teres* Rumph.

Common Names ▶ bilimbi, cucumber tree, tree sorrel; *Brazil (Portuguese)*: lunao de caiena; *Chinese*: san nien; *French*: zibeline, bilimbi; *German*: Bilimbi, Gurkenbaum; *India*: bilim, bilimbi, bimblee, tamarang; *Indonesian*: belimbing wuluh; *Malaysian*: belimbing asam; *Pilipino*: balambing, camias kalamias, kilingiba; *Portuguese*: limão de caiena; *Spanish*: bilimbí, grosella China, mimbros, vinagrillo; *Thai*: taling pling;

Usage ▶ spice (cooked) for pickles and sambals or fish curries, relish

Parts Used ▶ fruit

Distribution ▶ origin unknown; widely cultivated in the tropics, specially in India and Malaysia

Blancke 2000; Burkill 4, 1997; Cheers 1998; Davidson 1999; Hanelt 2001; Hiller/Melzig 1999; Lück 2000; Schultze-Motel 1986; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

 Averrhoa obtusangula Stokes

➤ *Averrhoa bilimbi* L.

B

 Baccharoides anthelmintica (L.) Moench

➤ *Vernonia anthelmintica* (L.) Willd.

BACKHOUSIA Hook et Harvey -
Myrtaceae

 Backhousia citriodora F. v. Muell.

Common Names ▶ Australian lemon myrtle, citron backhousia, citron myrtle, lemon scented myrtle, scrub myrtle, native myrtle, sweet verbena myrtle; *French*: myrte citronée; *German*: Australische Zitronenmyrte; *Italian*: mirto dal profumo di limone; *Portuguese*: limón myrto; *Spanish*: limon myrto

Usage ▶ flavoring; **product**: essential oil and citral

Parts Used ▶ leaf, fresh and dried as pot-herb and as adjunct in food

Distribution ▶ Australia: Queensland, cultivated since 1990.

Note ▶ The oil resembles lemon grass oil.

Arctander 1960; Groom 1997; Hayes/Markovic 2002; Oyen/Dung 1999; Uphof 1968; Wilkinson et al. 2003

 Badianifera officinarum Kuntze

➤ *Illicium verum* Hook. f.

BALANITES Delile -
Balanitaceae (Zygophyllaceae)

 Balanites aegyptiaca (L.) Del.

Synonyms ▶ *Ximenia aegyptica* L.

Common Names ▶ desert date, Egyptian balsam, Egyptian myrobalane, soap berry; *Arabic*: balah harara, betu, heglig, teborak zachun; *French*: balanites, dattier du désert, myrobalan d'Égypte; *German*: Ägyptischer Zahnbaum, Zachunbaum; *Hindi*: hingana; *Sanskrit*: ingudi

Usage ▶ spice for souce, seasoning

Parts Used ▶ leaf, shoot

Distribution ▶ Palestine, Arabia, tropical Africa: Ethiopia and Angola; cultivated in Egypt

Ayensu 1978; Burkill 1, 1985; Cufodontis 1957; Erhardt et al. 2002; Hanelt 2001; Hepper 1992; Schultze-Motel 1986; Täufel et al. 1993; Terra 1967; Uphof 1968; Wealth of India 1, 1948; Zeven/de Wet 1982; Zeven/Zhukovsky 1975

 Ballota suaveolens L.

➤ *Hyptis suaveolens* L.

 Balsamita major Desf.

➤ *Tanacetum balsamite* L.

 Balsamodendron gileadense Kunth

► *Commiphora opobalsam* (L.) Engl.

BARBAREA R.Br. - Barbara herb - Brassicaceae (Cruciferae)

 Barbarea praecox (R.Br.) Dul.

► *Barbarea verna* (Mill.) Aschers.

 Barbarea verna (Mill.) Aschers.

Synonyms ► *Barbarea praecox* (R.Br.) Dul., *Erysimum vernum* Mill.

Common Names ► American cress, early yellow rocket, Bello-Isle cress, land cress, upland Cress; *French*: cresson de terre, roquette des jardins; *German*: Barbarakraut, Frühe Winterkresse; *Italian*: barbarea; *Spanish*: oruga del jardín

Usage ► pot-herb

Parts Used ► fresh herb

Distribution ► W, SW Europe: France, England, also cultivated

Fleischhauer 2003; Hanelt 2001; Koschtschejew 1990; Loch 1993; Mansfeld 1962; Schnelle 1999; Schultze-Motel 1986; Small 1997; Zeven/de Wet 1982

 Barbarea vulgaris R.Br.

Synonyms ► *Erysimum barbarea* L., *Sisymbrium barbarea* (L.) Cr.

Common Names ► bitter cress, common winter cress, rocket or upland cress, winter cress, yellow rocket; *French*: barbarée herbe, cresson de jardin, herbe de Sainte Barbe; herbe aux charpentiers; *German*: Barbenkraut, Gewöhnliches Barbarakraut, Winterkresse; *Italian*: barbarea, erba Santa Barbara; *Portuguese*: agrião de horta; *Russian*: surepiza, surepka obyknowennaja; *Spanish*: berrillo, berro, mastuerzo, hierba de Santa Bárbara

Usage ► pot-herb

Parts Used ► fresh herb

Distribution ► Europe, Turkey, Levante, Caucasus, Iran,

W and E Siberia, Himalayas, Tibet, Mongolia, China: Sinkiang; Tunisia, Algeria; naturalized in S Africa, N America, Australia, New Zealand

Aichele/Schwegler 3, 1995; Bilgri/Adam 2000; Cheers 1998; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999; Koschtschenjew 1990; Körber-Grohne 1989; Loch 1993; Lück 2004; Rust 2003; Schnelle 1999; Schultze-Motel 1986; Senatore et al. 2000; Small 1997; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

BAROSMA Willd. - Rutaceae

 Barosma betulina (Bergius) Bartl. et Wendl.f.

Synonyms ► *Agathosma betulina* Pillans

Common Names ► buchu, round-leaf buchu (S Africa); *French*: buc hu; *German*: Birkenblättriger Bukkostrauch, Bucco; *Italian*: buchu

Usage ► spice, flavoring; **product**: essential oil

Parts Used ► leaf

Distribution ► S Africa; also cultivated

Note ► In Tunisia the leaves are used for the preparation of brandy and the leaves oil in America for flavoring baked goods, sweets and spices. In 1821 the drug was introduced into England.

Berger 2, 1950; Hager 4, 1992; Hiller/Melzig; Hoppe 1949; Morton 1976; Pschyrembel 1998; Schultze-Motel 1986; Seidemann 1993; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wyk et al. 2004; Zeven/de Wet 1982

 Barosma crenulata (L.) Hook.

Synonyms ► *Agathosma crenulata* Pillans; *Diosma odorata* (Wendl.) DC.

Common Names ► oval buchu; short buchu, buch (S Africa); *German*: Gekerbtblättriger Bukkostrauch

Usage ► spice; **product**: essential oil

Parts Used ► leaf

Distribution ► S Africa; also cultivated

Note ► The leaves and the essential oil are utilized like those of *Barosma betulina* (Bergius) Bartl. et Wendl.

Berger 2, 1950; Fuchs et al. 2001; Hager 4, 1992; Hanelt 2001; Hiller/Melzig; Morton 1976; Rust 2003; chultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Uphof 1968

 Barosma serratifolia (Curtis) Willd.

Synonyms ▶ *Agathosma serratifolia* (Curtis) Spreeth, *Barosma serratifolia* Roem. et Schult.

Common Names ▶ long buchu, buchu; *German*: Gesägtblättriger Bukkostrauch

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S Africa, also cultivated

Note ▶ The leaves and the oil are utilized like those of *Barosma betulina* (Bergius) Bartl. et Wendl.

Berger 2, 1950; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Rust 2003; Sánchez-Monge/Parellada 1981; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968

 Barosma serratifolia Roem. et Schult.

▶ *Barosma serratifolia* (Curtis) Willd.

BARRINGTONIA J.R. Forst. et G. Forst. -
Lecythidaceae

 Barringtonia scortechninii King

Common Names ▶ *Malaysian*: putat gajah, putat hutan, putat tuba; *Borneo*: tempalang, langsung burung

Usage ▶ flavoring

Parts Used ▶ fruit

Distribution ▶ Thailand, Malaysia, Borneo, Sumatra

Note ▶ Bark and pounded seeds are used as a fish poison.

Guzman/Siemonsma 1999; Uphof 1968

 Barosma serratifolia Roem. et Schult.

▶ *Barosma serratifolia* (Curtis) Willd.

 Baryosma tonga Gaertn.

▶ *Dipteryx odorata* (Aubl.) Willd.

BASELLA L. -
Basellaceae

 Basella alba L.

Synonyms ▶ *Basella rubra* L.

Common Names ▶ Indian or Ceylon spinach, Malabar nightshade; *Chinese*: chuan ts'ai, lo-kuei; *French*: épinard de Malabar, frède de Angola, baselle; *German*: Indischer Spinat, Malabar Spinat; *Hindi*: poi; labachlu; *Indonesian*: gendola; *India*: poi; *Korean*: rakkyu; *Portuguese*: bacela espinaca branca, espinaca de Malabar; *Russian*: malabarskij schpinat; *Spanish*: espinaca de Ceilán

Usage ▶ pot-herb (in India)

Parts Used ▶ tender stem, leaf

Distribution ▶ E S India, Sri Lanka; Africa, native in the Neotropics

Arora/Pandey 1996; Bendel 2002; Erhardt et al. 2000, 2002; Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999

 Basella rubra L.

▶ *Basella alba* L.

BASILICUM Moench -
Lamiaceae (Labiatae)

 Basilicum citratum Rumph

▶ *Ocimum basilicum* L.

 Basilicum polystachon (L.) Moench

Synonyms ▶ *Moschosma polystachon* (L.) Benth.

Common Names ▶ African curry powder, polystachyous basilicum; *Chinese*: xiao guan xun; *German*: Vielähriger Basilikum

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ W Africa: Ghana, Nigeria

Burkill 3, 1995; Dalziel 1957; Irvine 1948

BASSIA All. - Chenopodiaceae



Bassia scoparia (L.) A.J. Scott

Synonyms ▶ *Kochia scoparia* (L.) Schrader

Common Names ▶ summer cypres, burning bush, belvedere; *Chinese*: sao chou tsao, ti fu; *German*: Sommer-Zypresse; *Japanese*: hôki-gi

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ W, E Siberia, Mongolia, China: Sinkiang, Japan; N Africa, cultivated in China and Japan

Erhardt et al 2002; Rättsch 1998; Zeven/de Wet 1982

BAUHINIA L. - Caesalpiniaceae (Leguminosae)



Bauhinia malabarica Roxb.

Common Names ▶ Malabar-Bauhinia, Malabar orchid; *German*: Malabar-Bauhinie; *India*: amlī, kattrā, se-hara, shadloo; *Pilipino*: alibangbang, balibamban

Usage ▶ flavoring meat and fish (*Philippines*)

Parts Used ▶ leaf

Distribution ▶ tropical Asia, especially the Philippines

Uphof 1968



Bauhinia purpurea L.

Common Names ▶ orchid tree, butterfly tree, camel's foot tree purple, Bauhinia; *German*: Purpurne Bauhinie, Schmetterlings-Bauhinie; *Hindi*: kachnar, keolar, khairwal; *Indonesian*: bunga kupu-kupu; *Japanese*: murasaki soshin ka; *Malaysian*: tapak kud; *Pilipino*: alibangbang; *Sri Lanka*:

kolar; *Thai*: chong kho; *Vietnamese*: móng bò hoa tím

Usage ▶ pot-herb, condiment, admixture curries or pickles

Parts Used ▶ flowers, floral bud

Distribution ▶ India, China, Myanmar, rarely cultivated

Arora/Pandey 1996; Burkill 3, 1994; Cheers 1998; Chopra et al. 1956; Dastur 1954; Engel/Phummai 2000; Hanelt 2001; Kumar 2003; Schultze-Motel 1986; Storrs 1997; Uphof 1968; Wealth of India 1, 1948; Zeven/de Wet 1982

BEGONIA L. - Begonia - Begoniaceae



Begonia tuberosa Lam.

Common Names ▶ *German*: Knollenbegonie

Usage ▶ as sorrel, also cooked with fish and in sauce (of the Moluccas)

Parts Used ▶ leaf

Distribution ▶ Mollucas; worldwide cultivated in numerous hybrids

Cheers 1998; Uphof 1968

BEILSCHMIEDIA Nees - Lauraceae



Beilschmiedia madagascariensis (Baill.)
Kosterm.

Common Names ▶ *German*: Madagaskar-Beilschmiedie

Usage ▶ spice (limited)

Parts Used ▶ leaf

Distribution ▶ Madagascar, S Africa

Burkill 3, 1995; Neuwinger 1999



Beilschmiedia mannii (Meisn.) Benth. et Hook
f.

Synonyms ▶ *Tylostemon mannii* Staph.

Common Names ▶ cedar, spicy cedar; *Nigerian*: gbako nisa

Usage ▶ flavoring (for rice)

Parts Used ▶ flower, leaf

Distribution ▶ W Africa: Guinea, Ivory Coast, Liberia, Nigeria, Sierra Leone

Adegoke et al. 1968; Burkill 3, 1995; Dalziel 1957

Benzoin aestivale (L.) Nees

▶ *Lindera benzoin (L.) Bl.*

Bergora koenigii L.

▶ *Murraya koenigii (L.) Spreng.*

BETONICA L. - Betony - Lamiaceae (Labiatae)

Betonica officinalis L.

Synonyms ▶ *Stachys officinalis* (L.) Trevis.

Common Names ▶ betony, Bishop's word, woody betony; *Chinese*: yao shui su; *French*: bétoine, bétoine officinale; *German*: Echter Ziest, Flohblume, Gemeine Betonie, Heilziest; *Italian*: betonica; *Russian*: bukwiza lekarstwennaja; *Spanish*: betónica oficial

Usage ▶ spice (very rarely)

Parts Used ▶ herb

Distribution ▶ Europe, Turkey, Caucasus, N Iran, C Asia, NW Africa

Aichele/Schwegler 4, 1995; Berger 2, 1950; Berger 4, 1954; Fleischhauer 2003; Hiller/Melzig 2000; Hoppe 1949; Jeker et al. 1989; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Wyk et al. 2004

BIDENS L. - Bur-Marigold - Asteraceae (Compositae)

Bidens bipinnata L.

Common Names ▶ black jack, marygold, Spanish needles, sweet hearts; *Chinese*: gui zhan cao; *German*: Fiederblättriger Zweizahn

Usage ▶ pot-herb (in India)

Parts Used ▶ fleshy shoot

Distribution ▶ India, USA: California; S, C Europe; worldwide weed, probable origin the Neotropics and Subtropics

Arora/Pandey 1996; Erhardt et al 2000; Wiersema/León 1999

BIFORA Hoffm. - Apiaceae (Umbelliferae)

Bifora radians M. Bieb.

Common Names ▶ *German*: Strahlen-Hohlsame; *Russian*: dwojtschatka

Usage ▶ spice (rarely)

Parts Used ▶ root

Distribution ▶ S, C Europe, Turkey, Caucasus, Iran; Germany: Thuringia

Dudtschenk et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Loch 1993; Rothmaler 1987

BIXA L. - Bixaceae

Bixa orellana L.

Synonyms ▶ *Bixa urucurana* Willd.; *Orellana americana* L.

Common Names ▶ an(n)atto, atsuete, chiote tree, lipstick tree; *Brazil (Portuguese)*: açafroa, açafroeira-da-terra, urucu, urucum; *French*: rocouyer; *German*: Achote, Achiote, An(n)otta, Baja, Orleansamen, Roucon-Samen, Rukusamen; *Hindi*: latkan, rangamali, sedri, thidin; *Indonesian*: kesumba, kes-

B



■ **Bixa orellana**, flowering and fruiting

umba keling, pacar keling; *Malaysian*: jarak belanda, kesumba; *Pilipino*: atsute, chuete, annato; *Russian*: biksa; *Spanish*: achiote, bija, bixa; *Thai*: kham-ngo, kham saet

Usage ▶ spice, dye stuff

Parts Used ▶ seed

Distribution ▶ Amazonia, Mexico, C America, West Indies, trop S America; native in tropical Africa, tropical Asia, Australia: Queensland

Aedo et al. 2001; Anderson Simon et al. 1997; Baer 1977; Bahl et al. 1971; Barnicoat 1950; Bhalkar/Dubash 1983; Cheers 1998; Davidson 1999; Farrell 1985; Galindo-Cuspinera et al. 2002; Dastur 1954; Degnan et al. 1991; Duke et al. 2003; Engel/Phummai 2000; Erhardt et al. 2002; Ferrão 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Ingram/Francis 1969; Jondiko/Pattenden 1989; Lewington 1990; Magiatis et al. 1999; Morris/Mackley 1999; Mors et al. 2002; Ohler 1968; Preston/Rickard 1980; Rath et al. 1990; Satyanarayana et al. 2003; Schultze-Motel 1986; Scotter et al. 1998; Seidemann 1993c; Shuhama et al. 2003; Srinivasulu/Mahapatra 1982, 1989; Srivastava et al. 1999; Strorrs 1997; Täufel et al. 1993; Teuscher 2003; Uhl 2000; Uphof 1968; Villamara et al. 1994; Warren 1998; Wealth of India 2B, 1988; Zeven/de Wet 1982

🌿 **Bixa urucurana** Willd.

➤ *Bixa orellana* L.

BLIGHIA Koenig - Sapindaceae

🌿 **Blighia welwitscha** (Hiern.) Radlk.

Common Names ▶ *Cameroon*: onkom, toko; *Nigerian*: nofua, ukpe

Usage ▶ flavoring (for soups in Liberia)

Parts Used ▶ young leaves

Distribution ▶ W Africa: Ghana, Ivory Coast, Nigeria, Sierra Leone

Burkill 5, 2000; Irvine 1961; Uphof 1968

🌿 **Blimbigum teres** Rumph.

➤ *Averrhoa bilimbi* L.

BLUMEA DC. - Asteraceae (Compositae)

🌿 **Blumea chinensis** DC.

Synonyms ▶ *Blumea riparia* DC., *Conyza riparia* Bl.

Common Names ▶ tombak-tombak, djonge areuj

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ SE Asia, Malaysia, Indonesia

Note ▶ The succulent leaves have a mustard taste.

Uphof 1968

🌿 **Blumea lanceolaria** (Roxb.) Druce

Synonyms ▶ *Blumea myriocephala* DC.

Common Names ▶ lanceolated buffalo ear; *German*: Lanzettliche Blumée, Lanzettliches Büffelohr; *Indonesian*: xu ong song, xang song

Usage ▶ spice for fish, condiment

Parts Used ▶ leaf

Distribution ▶ India, Himalayas, S China, Myanmar, Taiwan, Malaysia, Philippines, cultivated in Vietnam and Malaccas

Bois 1934; Schultze-Motel 1986; Seidemann 1993c; Tucker 1986; WHO 1990

 **Blumea myriocephala** DC.

▶ *Blumea lanceolaria* (Roxb.) Druce

 **Blumea riparia** DC.

▶ *Blumea chinensis* DC.

BOERHAVIA L. - Nyctaginaceae

 **Boerhavia erecta** L.

Common Names ▶ erect boerhavia, erect spiderling, hogweed; *German*: Aufrechte Boerhavia

Usage ▶ pot-herb (sporadically)

Parts Used ▶ fresh leaf

Distribution ▶ C and N Mexico, Caribbean, Meso-America

Burkill 4, 1997; Diarra 1977; Wiersema/León 1999

BOESENBERGIA KUNTZE - Zingiberaceae

 **Boesenbergia pandurata** (Roxb.) Schlechter

▶ *Boesenbergia rotunda* (L.) Mansf.

 **Boesenbergia rotunda** (L.) Mansf. 

Synonyms ▶ *Boesenbergia pandurata* (Roxb.) Schlechter, *Curcuma rotunda* L., *Kaempferia ovata* Rosc., *Kaempferia pandurata* Roxb., *Zingiber xanthor-*



 **Boesenbergia rotunda**, flowering

rhizum Moon, *Gastrochilus pandurata* (Roxb.) Ridley

Common Names ▶ galingale, Chinese key, lesser ginger, tropical crocus; *Chinese*: soh shi; *French*: petits doigts; *German*: Runde Gewürzllilie, Fingerwurzel; *India*: chekkur, *Indonesian/Javanese*: temu kunchi; *Malaysian*: tamoe koentji, toemae kontji, temu kunchi; *Thai*: kae-aen, kra chai, wan-phraathit, krachai; *Vietnamese*: ngai num kho, bong nga truat, cu ngai

Usage ▶ spice, condiment; often also leaves and sprouts

Parts Used ▶ rhizome and root

Distribution ▶ Indian, Sri Lanka, SE Asia: Thailand, Malaysia, Indochina, China, probably native to Java and Sumatra

Note ▶ The taste is mild like galanga.

Arora/Pandey 1996; Davidson 1999; Duke et al. 2003; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 4, 1992; Herklots 1972; Hiller/Melzig 1999; Janranet al. 2001; Larsen et al. 1999; Lemmens/Bunyaphatsara 2003; Schultze-Motel 1986; Seidemann 1993c; Siriruga 1992; Täufel et al. 1993; Wong 1999; Zeven/de Wet 1982

 Boldus boldus (Mol.) Lyons

➤ *Peumus boldus* Molina

B

BORAGO L. - Borage - Boraginaceae

 Borago laxiflora Poir.

➤ *Borago pygmaea* (DC.) Chater ex Greuter

 Borago officinalis L. ■

Common Names ▶ borage, talewort; *Arabic*: bou shenaf, bousassal, harsha; *Chinese*: bo li qu; *Dutch*: bernagie, borago; *French*: bourrache (officinale), bourroche; *German*: Bor(r)etsch, Blauhimmelstern, Borgelkraut, Gurkenkraut, Wohlgemut; *Italian*: bor(r)agine, borrana, buglossa vera; *Russian*: buratschnik, buratschnik lekarstwennyj; *Spanish*: borrracha, borraja

Usage ▶ spice

Parts Used ▶ leaf, flores

Distribution ▶ Europe: Spain, France, Germany, Cyprus; Syria, Iran, Libya; native in C and E Europe, Turkey

Bärtels 1997; Beaubaire/Simon 1987; Berger 1, 1949; Bilgri/Adam 2000; Bremness 2001; Cheers 1998; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Guzman/Siemonsma 1999; Hager 4, 1992; Hager 2001; Heeger 1956; Heron et al. 1995; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Marini 1989; Newall et al. 1996; Ochoa/Alonso 1996; Pschyrembel 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Small 1997; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Villamar et al. 1994; Wyk et al. 2004; Zeven/de Wet 1982

 Borago pymaea (DC.) Chater et Greuter

Synonyms ▶ *Borago laxiflora* Poir.

Common Names ▶ dwarf borage; *German*: Ausdauernder Boretsch, Zwerg-Boretsch

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Corsica, Sardinia



■ **Borago officinalis**: a flowering, b separate flower

Cheers 1997; Erhardt et al. 2002; Hager 4, 1992

BORONIA Sm. - Rutaceae

 Boronia megastigma Nees ex Bart.

Common Names ▶ boronia, Melbourne boronia, scented boronia, brown boronia; *German*: Großnarbige Boronie, Duftende Korallenraute

Usage ▶ spice, flavoring (rarely); **product**: essential oil (oil of Boronia)

Parts Used ▶ flower

Distribution ▶ W Australia; near Melbourne also cultivated

Bourton 1968; Bussell et al. 1995; Charalambous 1994; Cheers 1998; Davies/Menary 1984; Erhardt et al. 2000, 2002; Hanelt 2001; Morton 1976; Porsch 1906; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Usher 1974

BOSWELLIA Roxb. ex Colebr. - Burseraceae

Boswellia sacra Flueck

Common Names ▶ frankincense, bible frankincense, olibanum tree; *French*: arbre à encens; *German*: Weihrauch-Baum; *Italian*: incensi; *Spanish*: incienso

Usage ▶ flavoring, used in baking goods, candies, gelatines, ice creams, puddings and soft drinks

Parts Used ▶ resin

Distribution ▶ Egypt, Somalia, S Arabia

Duke et al. 2003; Erhardt et al. 2002; Rättsch 1998h; Wyk et al. 2004

Boussingaultia cordeifolia Ten.

▶ *Anredera cordifolia* (Ten.) van Steenis

BRASSICA L. - Brassicaceae (Cruciferae)

Brassica cernua (Thunb.) Forb. et Hemsl.

Synonyms ▶ *Sinapis cernua* Thunb.

Common Names ▶ *German*: Chinesischer Senf, Japanischer Senf

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ China, also cultivated

Hager 4, 1992; Heeger 1956; Melchior/Kastner 1974; Seidemann 1993c; Seidemann/Siebert 1987; Staesche 1972

Brassica carinata A. Br.

Common Names ▶ Abessinian mustard; *German*: Abessinischer Senf

Usage ▶ pot-herb

Parts Used ▶ herb

Distribution ▶ Ethiopia

Small 1997; Uphof 1968

Brassica eruca L

▶ *Eruca sativa* Mill.

Brassica hirta Moench

▶ *Sinapis alba* L.

Brassica integrifolia (West) Rupr.

▶ *Brassica juncea* (L.) Czern.

Brassica juncea (L.) Czern.

Synonyms ▶ *Brassica integrifolia* (West) Rupr., *Sinapis juncea* L.

Common Names ▶ brown mustard, Chinese mustard, Indian mustard, leaf mustard, mustard green Sarepta mustard; *Chinese*: jie cai; *Dutch*: mosterd; *French*: moutarde à feuilles, moutarde de Chine, moutarde de Sarepta; *German*: Chinesischer Senf, Indischer Senf, Russischer Senf, Rutenkohl, Sareptasenf; *Hindi*: mohari, rai, rajika, rayan, sarsan, sarsva; *Indonesian*: sesawi; *Italian*: senape indiana; *Korean*: kat; *Russian*: russkaja gortschiza, gortschiza sareptschaja, sisaja gortschiza; *Sanskrit*: asuri, rajika; *Spanish*: mostaza de Indias, repollo chino; *Vietnamese*: rau cai

Usage ▶ spice, condiment; **product**: mustard

Parts Used ▶ seed

Distribution ▶ E, W Siberia, N China, Mongolia, C Asia, native in Spain, Bulgaria, Romania, Russia, Turkey, Caucasus, Iran, Afghanistan, India

Note ▶ In Guinea the leaves are used as pot-herb and in Zaire for pepper condiment.

Aichele/Schwegler 3, 1995; Bois 1934; Bournot 1968; Bremness 2001; Burkill 1, 1985; Cheers 1998; Dalziel 1957; Davidson 1999; Dudtschenko et al. 1989; Farrell 1985; Fournier/Vangheesdaele 1980; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hermey/Ludi 1994; Hiller/Melzig 1999; Leung 1991; Mazza 1998; Melchior/Kastner 1974; Morris/Mackley 1999; Neuwinger 1999; Norman 1991; Pochljobkin 1974, 1977; Pruthi 1976; Pursglove 1968; Rong Tsao et al. 2002; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shankaranarayana et al. 1972; Siemonesma/Piluek 1993; Small 1997; Staesche 1972; Tainter/Grenis 1993; Täufel et al. 1993; Teuscher 2003; Tucker 1986;

Uhl 2000; Uphof 1968; Vaughan/Gordon 1973; Vaughan/Hemingway 1959; Zeven/de Wet 1982

B

 Brassica juncea (L.) ssp. integrifolia O. Schulz

Common Names ▶ *Chin*: gaai choy; *German*: Indischer Senf

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ N America; Asia: China

Davidson 1999

 Brassica nigra (L.) Koch

Synonyms ▶ *Sinapis nigra* L.

Common Names ▶ black mustard, true mustard; *Arabic*: lisban, khardal; *Brazil (Portuguese)*: mostarda preta; *Dutch*: swarte mosterd; *French*: moutarde noire, sénévé noire; *German*: Brauner, Senf, Französischer Senf, Roter Senf, Schwarzer Senf, Senfkohl; *Hindi*: benarasi rai; *Italian*: senape vera, senavra; *Pilipino*: mustasa; *Russian*: gortschiza tschernaja, nastojatschaja gortschiza, ranzusskaja gortschiza; *Slovenian*: horčica; *Spanish*: mostaza negra; *Turkish*: chordal

Usage ▶ spice, condiment; **product**: essential oil (mustard oil)

Parts Used ▶ seed

Distribution ▶ Asia minor: Iran; wild in the Mediterranean region, throughout C Europe, Middle East; cultivated in many countries, mainly in the garden

Note ▶ Soiling or falsification with 1. charlock, field mustard; *French*: moutarde sauvage, sanve, sénévé; *German*: Ackersenf; *Russian*: gortschiza polewaja, (*Sinapis arvensis* L.) 2. cabbage, rape; *French*: chou navet *German*: Raps; *Russian*: repa (*Brassica napus* L.) and 3. field rape, winter turnip rape; *German*: Rüben; *Russian*: turneps (*Brassica rapa* L.)

Aichele/Schwegler 3, 1995; Bois 1934; Bournot 1968; Cheers 1998; Clair 1961; Craze 2002; Coiciu (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Farrell 1985; Fleischhauer 2003; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hohmann et al. 2001; Hondelmann 2002; Hoppe 1949; Leung 1991; Mazza 1998; Melchior/Kastner 1974; Morris/Mackley 1999; Norman 1991; Pruthi 1976; Pschyrembel 1998; Pursglove 1968; Roth/Korzmann

1997; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shankaranarayana et al. 1971; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uhl 2000; Uphof 1968; Zeven/et Wet 1982

 Brindonia Indica Thouars

▶ *Garcinia indica* (Thouars) Choisy

BROSIMUM O. Sw. Cow tree, milk tree – Moraceae

 Brosimum gaudichaudii Trec.

Common Names ▶ mama cadela

Usage ▶ flavoring of tobacco

Parts Used ▶ root

Distribution ▶ S America: Brazil

Kumar 2001

BRUCEA Mill. - Simaroubaceae

 Brucea antidysenterica Lam.

Usage ▶ spice, flavoring

Parts Used ▶ bark

Distribution ▶ W Africa: W Cameroon, in Ethiopia also cultivated

Note ▶ The bark is a substitute for angostura bark and one of the constituents of “Angostura Bitter”.

Burkill 5, 2000

BUNIUM L. - Apiaceae (Umbelliferae)

 Bunium aromaticum L.

▶ *Trachyspermum ammi* (L.) Sprague

 Bunium bulbocastanum L.

Synonyms ▶ *Apium bulbocastanum* Caruel, *Bunium bulbosum* Dulac, *Bunium majus* Vill., *Bunium majus* S.F. Gray, *Carum bulbocastanum* Koch, *Carvi bulbocastanum* Bub., *Pimpinella bulbocastanum* Jossen

Common Names ▶ earth chestnut, great earthnut or pig-nut; *French*: chateigne de terre, cumin tubéreux, dardilon, gernote, moinson, noix de terre, terre-noix; *German*: Knollenkümmel, Erdeichel, Erdkastanie, *Italian*: bulbocastano, castagne di terra, terra noce; *Russian*: schischnik, schischetschnik

Usage ▶ spice (rarely)

Parts Used ▶ fruit, seed

Distribution ▶ SW Europe: Iberia, France, C Europe, Slovenia, native in Denmark

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Melchior/Kastner 1974; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Täufel et al. 1993; Uphof 1968; Zeven/de Wet 1982

 Bunium bulbosum Dulac

➤ *Bunium bulbocastanum* L.

 Bunum carvi Bieb.

➤ *Carum carvi* L.

 Bunium majus S.F. Gray

➤ *Bunium bulbocastanum* L.

 Bunium majus Vill.

➤ *Bunium bulbocastanum* L.

 Bunium copticum Spreng.

➤ *Trachyspermum ammi* (L.) Sprague

 Bunium persicum (Boiss.) Fedch.

Common Names ▶ black caraway, black cumin, black zira; *German*: Persischer Kreuzkümmel, Schwarzer Kreuzkümmel; *India*: siah zeera; *Persian*: zireh siyah

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Iran, Afghanistan, Pakistan, India

Dhar/Dhar 2000; Foroumadi et al. 2002; Hanelt 2000; Mansfeld 1986; Schultze-Motel 1986; Sharma 2003; Small 1997; Teuscher 2003

 Buphthalmum oleraceum Lour.

➤ *Eupatorium chinense* L.

BURASIA Thouars - Menispermaceae

 Burasaia madagascariensis DC.

Common names ▶ *Madagascar*: ambora, amborasaha, odiandro, borasahr

Usage ▶ a source of an aromatic bitter used principally for the production of beer

Parts Used ▶ leaf

Distribution ▶ Madagascar

Uphof 1968

 Bursa pastoris Weber

➤ *Capsella bursa-pastoris* (L.) Medik.

C

**Cacalia porophyllum** L.

► *Porophyllum ruderales* (Jacq.) Cass.

CAKILE Mill. – Sea Rocket -
Brassicaceae (Cruciferae)
**Cakile edentula** (Bigel.) Hook.

Common Names ► American sea rocket; *German*: Amerikanischer Meersenf

Usage ► pot-herb, for salads

Parts Used ► fresh leaf

Distribution ► along beaches of N America

Uphof 1968

**Cakile maritima** Scop.

Common Names ► sea rocket; *French*: caquillier, roquette de mer; *German*: Europäischer Meersenf, Meer-senf; *Russian*: gortschiza morskaja

Usage ► pot-herb, for salads

Parts Used ► fresh herb

Distribution ► coasts of Europe, N Africa, SW Asia, native in N America, Australia

Aichele/Schwegler 1995; Erhardt et al. 2002; Fleischhauer 2003; Schnelle 1999; Teubner 2001

CALAMINTHA Mill. - Calamint -
Lamiaceae (Labiatae)
**Calamintha acinos** (Clairv.) Man.

► *Acinos arvensis* (Lam.) Dandy

**Calamintha albiflora** Van.

► *Nepeta cataria* L.

**Calamintha arvensis** Lam.

► *Acinos arvensis* (Lam.) Dandy

**Calamintha clinopodium** Benth.

► *Clinopodium vulgare* L.

**Calamintha cretica** Benth.

Synonyms ► safüreja cretica (L.) Brig.

Common Names ► dwarf calamint; *Dutch*: bergsteentijm;

German: Kreta-Bergminze

Usage ► spice, flavoring

Parts Used ► herb

Distribution ► Crete

Jahn/Schönfelder 1995; Türland et al. 1993

 Calamintha grandiflora (L.) Moench

Synonyms ► *Melissa grandiflora* L., *Satureja grandiflora* (L.) Scheele, *Thymus grandiflorus* (L.) Scop.

Common Names ► showy calamint, showy savory, large flowered calamint; *French*: calament à grande fleur, sarriette à grandes fleurs; *German*: Großblütige Bergminze, Großblütiger Steinquendel; *Italian*: mentuccio montana; *Russian*: duschevik krup-nocvetkovyj

Usage ► spice (flavoring); **product**: essential oil

Parts Used ► herb

Distribution ► SW, W Europe: Iberia, France, Romania, Crimea, Caucasus, Anatolia, NW Iran

Aichele/Schwegler 4, 1995; Bärtels 1997; Başer/Özek 1993c; Carnat et al. 1991b; Cheers 1998; Erhardt et al. 2002; Hanelt 2001; Small 1997; Soulélès/Argyriadou 1990; Soulélès et al. 1991; Wiersema/León 1999

 Calamintha hederacea (L.) Scop.

► *Glechoma hederaceae* L.

 Calamintha menthifolia Host

Synonyms ► *Calamintha sylvatica* Bromf., *Satureja calamintha* (L.) Scheele, *Thymus calamintha* Scop.

Common Names ► calamint; *French*: sarriette népéta; *German*: Waldbergminze, Aufsteigende Bergminze, Wald-Steinquendel; *Italian*: mentuccio maggiore, calamenta, nepitella; *Russian*: duschevik mjatolistnyj

Usage ► spice (flavoring); **product**: essential oil

Parts Used ► herb

Distribution ► W, S and S C Europe, Turkey, Crimea, Caucasus, Syria, N Iran, NW, Africa, Algeria

Bäser/Özek 1993; Davidson 1999; Erhardt et al. 2002; Giannetto et al. 1979; Hanelt 2001; Hanlidou et al. 1991; Hidalgo et al. 2002; Romeo et al. 1980; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Tucker 1986

 Calamintha nepeta (L.) Savi

Synonyms ► *Calamintha nepetoides* Jord., *Calamintha officinalis* Moench, *Calamintha parviflora* Lam., *Melissa calamintha* L., *Melissa nepeta* L.

Common Names ► common calamint, lesser calamint; *French*: calament, menthe de montagne, sarriette népéta, *German*: Echte Bergminze, Drüsige Bergminze, Echter Steinquendel, Katzen-Bergthymian, Waldbergminze; *Italian*: calaminta; mentuccio comune; *Russian*: duschevik koto-vnikovyj; *Spanish*: calamento

Usage ► spice (flavoring), mint-like, especially in Tuscany and Turkey

Parts Used ► herb

Distribution ► S, W and C Europe: SE England, Crimea, Caucasus, W Anatolia, native N America, cultivated in Europe and N America

Ahmed et al. 1975; Aichele/Schwegler 4, 1995; Berger 4, 1954; Cheers 1998; Dagab et al. 1983a, b; Erhardt et al. 2002; Fleischhauer 2003; Fraternali et al. 2001; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Kyong Hi Tcha et al. 1976; Mikus et al. 1997; Pagni et al. 1990; Pooter et al. 1987; Seidemann 1993c; Small 1997; Soulélès/Shammas 1985; Soulélès et al. 1987; Trucker 1986; Wiersema/León 1999

 Calamintha nepeta (L.) Savi ssp. nepeta

Common Names ► lesser calamint; *French*: menthe de montagne; *German*: Kleinblütige Katzenminze

Usage ► flavoring

Parts Used ► herb

Distribution ► E Europe, Turkey, Caucasus

Erhardt et al. 2002

 Calamintha nepetoides Jord.

► *Calamintha nepeta* (L.) Savi

 Calamintha officinalis Moench

► *Calamintha nepeta* (L.) Savi

**Calamintha parviflora** Lam.

➤ *Calamintha nepeta* (L.) Savi

**Calamintha sylvatica** Bromf.

➤ *Calamintha menthifolia* Host

**CALENDULA L. - Marigold -
Asteraceae (Compositae)**
**Calendula officinalis** L.

Common Names ▶ pot marigold, marigold flower, calendula, ruddles; *Arabic*: ajamir, djoúmaira; *Chinese*: chin chan hua, jin zhan ju; *French*: fleur de souci (des jardins), souci officinal, fleur de tous les mois; *German*: Goldblume, Ringelblume, Ringelrose, Sonnenwende; *Italian*: calendola, calta, fior d'ogni, fiorencio dei gardine; *Japanese*: tô kin sen ka; *Korean*: kûmjanhwa; *Russian*: nogotki; *Spanish*: caléndula, flor de merte, maravilla

Usage ▶ spice (rarely); **product**: essential oil

Parts Used ▶ flower

Distribution ▶ Europe: Iberia, France, C Europe, Hungary, Romania, W Russia, Crime, Caucasus, Turkey, Iran, Afghanistan, NW Africa

Note ▶ Floral leaves used as falsification of saffron.

Bärtels 1997; Berger 1, 1949; Bois 1934; Bomme 1989; Bremness 2001; Cheers 1998; Clair 1961; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Gracza 1987; Hager 4, 1992; Hanelt 2001; Heeger 1956; Heisig /Wichtl 1990; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hoppe 1949; Isaac 1992, 1994; Janssens/Vernooij 2001; Masterova et al. 1991; Meyer 2000; Ochoa/Aloso 1996; Pschyrembel 1998; Schmidt 1993; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Staesche 1972; Täufel et al. 1993; Tucker 1986; Turova et al. 1987; Uphof 1968; Villamar et al. 1994; Willuhn 1987; Wyk et al. 2004; Zeven/de Wet 1982

**Calligonum canescens** Pursh

➤ *Atriplex canescens* (Pursh) Nutt.

**Callopsima amplexifolium** Mart.

➤ *Deianira nervosa* Cham. et Schlecht.


**CALTHA L. -
Ranunculaceae**
**Caltha cornuta** Schott, Nyman et Kotschy

➤ *Caltha palustris* L.

**Caltha palustris** L.

Synonyms ▶ *Caltha cornuta* Schott, Nyman et Kotschy

Common Names ▶ kingcup, marsh marigold, mayblob, meadow bright; *Brazil (Portuguese)*: cabudula; *Chinese*: ma ti ye; *French*: caltha des marais, populage, souci d'eau; *German*: Butterblume, Dotterblume, Sumpfdotterblume; *Italian*: calta palustre, farferugine; *Russian*: kalushniza bolotnaja; *Spanish*: calta, hierba centella;

Usage ▶ condiment, substitute for capers

Parts Used ▶ flower-puds

Distribution ▶ Europe, Caucasian region, W, E Siberia, E Amur, Sachalin, Kamschatka, C Asia, Mongolia, China, Japan, Alaska, Canada, NC, NE, NCW, NW and SE USA

Aichele/Schwegler 2, 1994; Berger 1, 1949; Cheers 1998; Czygan 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Wiersema/León 1999

**CALYCANTHUS L. - Spicebush -
Calycanthaceae**
**Calycanthus floridus** L. ■

Synonyms ▶ *Calycanthus glaucus* Willd., *Calycanthus sterilis* Walter

Common Names ▶ Carolina allspice; *French*: arbre aux anémones; *German*: Echter Gewürzstrauch, Nelkenpfeffer



■ **Calycanthus floridus**, flowering

Usage ▶ spice by the Indians of N America

Parts Used ▶ bark

Distribution ▶ USA: Florida, Virginia

Note ▶ Formerly the Indians used the flowers as a substitute for cinnamon and cloves.

Cheers 1998; Collin/Halim 1971; Erhardt et al. 2002; Hager 4, 1992; Hiller/Melzig 1999; Uphof 1968

Calycanthus glaucus Willd.

➤ *Calycanthus floridus* L.

Calycanthus sterilis Walter

➤ *Calycanthus floridus* L.

CALYPTRANTHES Sw. - Myrtaceae

Calyptranthes aromatica St. Hill.

Common Names ▶ Brazil pimento; *Brazil (Portuguese)*: craveiro-da-terra; *German*: Brasilpiment

Usage ▶ spice, similar allspice or cloves; condiment (bark)

Parts Used ▶ fruit, bark

Distribution ▶ S America: Brazil

Mors et al. 2000; Overdieck 1989; Teuscher 2003; Uphof 1968

Calyptranthes schiedeana Berg.

Usage ▶ spice (locally)

Parts Used ▶ leaf

Distribution ▶ Mexico

Uphof 1968; Wiersema/León 1999

Calyptranthes variabilis Berg

Common Names ▶ *Brazil (Portuguese)*: craveiro-do campo, cravo-do-campo

Usage ▶ flavoring (locally)

Parts Used ▶ plant

Distribution ▶ Brazil: Minas Gerais to Rio Grande

Mors et al. 2000

Camara vulgaris Benth.

➤ *Lantana camara* L.

Canagium odoratum (Lam.) King

➤ *Cananga odorata* (Lam.) Hook.f. et Thoms.

CANANGA (DC.) Hook.f. et Thomson - Annonaceae

Cananga fruticosum Craib.

➤ *Cananga odorata* (DC.) Hook.f. et Thomas

Cananga odorata (DC.) Hook.f. et Thoms.

Synonyms ▶ *Cananga fruticosum* Craib., *Canagium odoratum* (Lam.) Baill., *Uvaria odorata* Lam.

Common Names ▶ cananga, ilang-ilang; *Brazil (Portuguese)*: cananga, ilanga; *French*: canang odorant, ylang-ylang; *German*: Ilang-Ilang, Ylang-Ylang;

Indonesian: kananga; *Malaysian*: chenanga, kenaga, nyaix; *Myanmar*: sagasein

Usage ▶ flavoring (of confectionary goods and the like, and also coconut oil); **product**: essential oil (*Annonae aetheroleum*, oil of ylang-ylang, German: Cangaöl)

Parts Used ▶ flower

Distribution ▶ SE Asia: Malaysia, Philippines, N Australia, Pacific Islands, in tropical regions cultivated, e.g. Seychelles, Kenya, Angola, Tanzania

Anon. 2001; Bournot 1968; Burkill 1966; Charalambous 1944; Dastur 1951; Davidson 1999; Erhardt et al. 2002; Gurib-Fakim/Brendler 2004; Hunnius 1993; Lawrence 1999; Randriamiharisoa 1983; Roth/Kormann 1997; Schultze-Motel 1986; Sharma 2003; Shiva et al. 2002; Teisseire/Galfre 1974; Uphof 1968; Wealthof India 2, 1950; Zeven/de Wet 1982

CANARIUM L. - Chinese olive - Burseraceae

 **Canarium schweinfurthii** Engl.

Common Names ▶ African elemi, incense tree, Papo Canary tree; *Cameroon*: abé, abel, bele, mbili, toumba; *French*: elemier d'Afrique; *Ghana*: bedi wunue

Usage ▶ condiment

Parts Used ▶ fruit

Distribution ▶ tropical Africa: Senegal to E Africa, Ethiopia, Angola, Zimbabwe

Burkill 1, 1965; Facciola 1990; Irvin 1961; Neuwinger 1998; Sawadogo et al. 1985; Uphof 1968; Wiersema/León 1999

CANAVALIA DC. - Jack bean - Fabaceae (Leguminosae)

 **Canavalia maritima** (Aubl.) Thou.

Synonyms ▶ *Canavalia rosea* (Sw.) DC.

Common Names ▶ seaside sword bean, seaside jack bean; *French*: pois bord de mer, pois maritime; *German*: Meeres-Jackbohne, Schwertbohne; *Portuguese*: feijão, feijão bravo

Usage ▶ flavoring

Parts Used ▶ flower

Distribution ▶ India, Malaysia, Mexico Gulf, West Indies, W Africa

Burkill 3, 1995; Hanelt 2001; Zeven/de Wet 1982

 **Canavalia rosea** (Sw.) DC.

▶ *Canavalia maritima* (Aubl.) Thou

CANELLA P. Browne - Canellaceae (Winteranaceae)

 **Canella alba** Murr.

▶ *Canella winterana* (L.) Gaertn.

 **Canella winterana** (L.) Gaertn. ■

Synonyms ▶ *Canella alba* Murr., *Winterana canella* L.

Common Names ▶ white canel, white cinnamon, wild canel, wild cinnamon; *French*: canella blanche; *German*: Kaneelinde, Weißer Kaneel, Weißer Zimt

Usage ▶ spice, flavoring liqueur and tobacco

Parts Used ▶ bark

Distribution ▶ West Indies, USA: S Florida

Note ▶ The bark is used as cinnamon.

Bois 1934; Brockmann 1979; Brown 1994; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; McNavy Wood 2003; Ratsch 1992; Seidemann 1993c; Staesche 1972; Täufel et al. 1993; Uphof 1968; Wolters 1994; Wüstenfeld/Haensel 1964

CANNA L. - Canna Lily - Cannaceae

 **Canna coccinea** Mill.

▶ *Canna indica* L



■ **Canella winterana**, flowering

🌿 **Canna edulis** Ker-Gawl.

➤ *Canna indica* L.

🌿 **Canna indica** L.

Synonyms ▶ *Canna coccinea* Mill., *Canna edulis* Ker-Gawl., *Canna lutea* Mill., *Canna ovatus* Moench, *Canna patens* (Ait.) Rosc.

Common Names ▶ edible canna, Indian canna, Indian bread shot, Indian shot, African turmeric, Queensland Arrowroot, wild tapioca; *Brazil (Portuguese)*: achira; *Chinese*: mei ren jiao ger, yang di li; *Dutch*: eetbar bloemriet, Indisch bloemriet; *French*: balisier comestible, balisierou faux-sucrier, canna d'Inde; *German*: Indisches or Westindisches Arrowroot (starch); Indisches Blumenohr; *Italian*: canna commestibile canna dolce, canna d'India; *Japanese*: kanna dandoku, shokuyō kanna; *Malaysian*: kenyong, pisang sebiak, sebeh, ubi gereda, zemba; *Pilipino*: bandera Española, kolintaso, ti-kas tikas; *Portuguese*: canna comestível, canada-

índia, birú manso, merú; *Russian*: kanna indijkaja; *Spanish*: achera, achira, caña comestible, caña de las Indias

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ S America: Venezuela, Chile, Columbia, Brazil, West Indies, C America, native in USA, SE Asia, also cultivated in India, Philippines, tropical Africa: Sierra Leone, Gabon

Note ▶ In the literature *Canna edulis* Ker.-Gawl. treated as separate species the starch of the tubers is the Queensland arrowroot.

Erhardt et al. 2002; Hanelt 2001; Mansfeld 1962; Mors et al. 2000; Schultze-Motel 1986; Uphof 1968

🌿 **Canna lutea** Mill

➤ *Canna indica* L.

🌿 **Canna ovatus** Moench

➤ *Canna indica* L.

🌿 **Canna patens** Rosc.

➤ *Canna indica* L.

CAPPARIS L. - Caper - Capparaceae

🌿 **Capparis aegyptica** Lam.

➤ *Capparis spinosa* L.

🌿 **Capparis aphylla** Roth.

➤ *Capparis decidua* Edgew.

 Capparis atlantica *Inocencio, D. Rivera, Obón and Alcaraz*

Common Names ▶ *Arabic*: kabar, quabar, lassaf, shafel-lah

Usage ▶ condiment

Parts Used ▶ floral bud

Distribution ▶ Morocco

Rivera et al. et al. 2003

 Capparis cartilaginea *Decne.*

▶ *Capparis inermis* *Forssk.*

 Capparis cordifolia *Lam. ssp. cordifolia*

Synonyms ▶ *Capparis mariana* DC.

Usage ▶ condiment

Parts Used ▶ floral bud

Distribution ▶ Solomon Islands, Archipelago of Tuamotu, Cook Island, Fiji Island, Hawaii, Islands of Nauru, Rurutu; Philippines, Marianas

Rivera et al. 2003

 Capparis cynophallophora *L.*

▶ *Capparis flexuosa* *L.*

 Capparis decidua (*Forssk.*) *Edgew.*

Synonyms ▶ *Capparis aphylla* Roth.

Common Names ▶ siwak; *French*: câprier sans feuilles; *Hindi*: kair, ker, delha, kurrel

Usage ▶ condiment

Parts Used ▶ floral bud, fruit

Distribution ▶ Morocco, W Africa: Mauritania, Guinea, Mali, Niger, Nigeria, Senegal, Sudan

Note ▶ Cultivated for the edible fruits.

Arora/Pandey 1996; Burkill 1, 1985; Fageria et al. 2003; Schultze-Motel 1986; Sushila 1987; Täufel et al. 1993; Teuscher 2003; Wealth of India 2, 1950

 Capparis flexuosa *L.*

Synonyms ▶ *Capparis cynophallophora* L., *Morisonia flexuosa* L.

Common Names ▶ bay-leaved caper, caper tree; *German*: Jamaika Kaper; *Mexico*: xpayumak, pan y agua, burro, palo de burro

Usage ▶ condiment

Parts Used ▶ floral bud

Distribution ▶ West India, Mexico to southern USA

Note ▶ Cultivated for the edible fruits. The flavor of the fruits is horse radish.

Hanelt 2001; Sánchez-Monge/Parellada 1981; Uphof 1968

 Capparis florantesii *DC.*

Synonyms ▶ *Capparis ovata* Desf.

Common Names ▶ *Arabic*: khabbar, soukoum

Usage ▶ condiment

Parts Used ▶ floral bud

Distribution ▶ N Africa: Algeria, Morocco, Chad

Rivera et al. 2003

 Capparis inermis *Forssk.*

Synonyms ▶ *Capparis cartilaginea* Decne.

Common Names ▶ *Arabic*: lassaf, lattssaf; *India*: karat

Usage ▶ condiment

Parts Used ▶ floral bud

Distribution ▶ Egypt, Saudi Arabia, Kenya, Yemen, India

Rivera et al. 2003

 Capparis herbacea *Willd.*

Synonyms ▶ *Capparis ovata* Desf. var. *herbacea* (Willd.) Zohary

Common Names ▶ *Armenian*: aggenko (fruit); *Russian*: kapersi; *Turkish*: keber

Usage ▶ condiment

Parts Used ▶ floral bud, fruit

Distribution ▶ Turkey, Armenia, Georgia, Azerbaid-schan, Turkmenistan

Rivera et al. 2003

C

Capparis mariana DC.

➤ *Capparis cordifolia* Lam. ssp. *cordifolia*

Capparis napaulensis DC.

Synonyms ▶ *Capparis himalayensis* Jafri

Common Names ▶ *German*: Nepal-Kaper, Himalaya-Kaper; *India*: kabra, karil; *Pakistan*: kakri, kander, kabra

Usage ▶ condiment

Parts Used ▶ floral bud, fruit

Distribution ▶ India, Pakistan

Rivera et al. 2003

Capparis himalayensis Jafri

➤ *Capparis napaulensis* DC.

Capparis ovata M. Bieb.

➤ *Capparis spinosa* L.

Capparis obovata Royle

Common Names ▶ *India*: kabar, kabara; *Pakistan*: kh-warg, pahinro kirap, panetro khafkhader

Usage ▶ condiment

Parts Used ▶ floral bud, unripe and ripe fruit

Distribution ▶ India, Pakistan

Rivera et al. 2003;

Capparis orientalis Duhamel

Common Names ▶ Eastern caper, oriental caper, *German*: Orientalische Kaper

Usage ▶ condiment

Parts Used ▶ floral bud

Distribution ▶ Mediterranean region: Spain, Italy, Greece, Portugal, Turkey and Morocco

Inocencio et al. 2000, 2002; Özcan 1999; Özcan/Akgül 1998

Capparis ovata Desf.

➤ *Capparis fontanesii* DC.

Capparis rupestris Sibth et Sm.

➤ *Capparis spinosa* L.

Capparis sicula Duhamel ssp. *sicula*

Common Names ▶ Sicily caper; *German*: Sizilianische Kaper; *Turkish*: kapari, kebere çiçeği (flower)

Usage ▶ condiment

Parts Used ▶ floral-bud, unripe fruit

Distribution ▶ Atlantic coasts of Europe and N Africa to the Mediterranean coasts, especially Sicily, Morocco; also cultivated

Inocencio et al. 2000, 2002; Rivera et al. 2003

Capparis spinosa L. ■

Synonyms ▶ *Capparis aegyptica* Lam., *Capparis ovata* M. Bieb., *Capparis rupestris* Sibth et Sm.

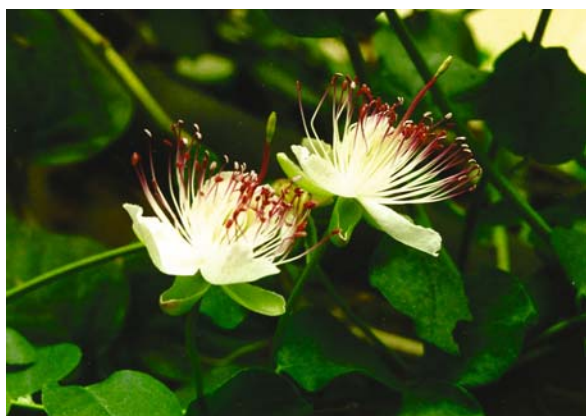
Common Names ▶ caper, common caper, spineless caper; *Arabic*: habbar, kabar, kalvari, lasafa; *Chinese*: ci shan gan; *Dutch*: kapper boom; *French*: câprier (commun); *German*: Kaper, Echte Kaper; *Hindi/India*: basari, bauri, kabbar, kebir, kakadani, kabra; *Italian*: càpperro, càparo; *Portuguese*: alcaparra, alcaparreira; *Russian*: kaperzy; *Slovenian*: kapary; *Spanish*: alcaparna, acaparrón, tápana *Turkish*: keberé

Usage ▶ condiment

Parts Used ▶ floral bud unripened fruit, caper berries; *French*: cornichons de câprier, *German*: Kapernfrucht, Kaperngurke

Distribution ▶ Mediterranean region to Caucasus, Turkey, W Himalayas, also cultivated

Note ▶ Trade sorts: I. quality: 'Nonpareilles', 'Surfines',



■ **Capparis spinosa**, flowering

‘Capucines’; II quality: ‘Capotes’, ‘Fines’, ‘Hors calibres’. The name of the great Italian trade sort: ‘Capperoni’. The fruit (French: cornichons de câprier, cucunci) are also used. The plant of *Capparis flexuosa* L. is considered as the wild progenitor of the domesticated species. The name of unripened fruits is ‘Cornichons de câprier’, used in pickles.

Akgül 1996; Alvarruiz et al. 1990; Al-Said et al. 1988; Arora/Padney 1996; Barbera 1991; Bärtelös 1997; Berger 1, 1949; Bois 1934; Calis et al. 2002; Castro/Nosti 1987; Cheers 1998; Craze 2002; Davidson 1999; Duke et al. 2003; Farrell 1985; Gerhardt 1979; Giuffrida et al. 2002; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hondelmann 2002; Inocencio et al. 2000, 2002; Kjaer/Thomsen 1963; Melchior/Kastner 1974; Morris/Mackley 1999; Neuwinger 1999; Özcan/Akgül 1995, 1998; 2000, 2001; Pascual et al. 2003; Rodrigo et al. 1992; Sánchez et al. 1992; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Vega/Ramos 1987; Zeven/de Wet 1982; Zohary 1960

Capparis spinosa L. var. *inermis* Turra

Common Names ► caper spurge, spineless caper

Usage ► condiment

Parts Used ► floral bud

Distribution ► S Europe: Italy (Tuscany), N Africa

Capparis spinosa L. var. *mariana*

Common Names ► Mariana caper; *German*: Mariannen-Kaper

Usage ► condiment

Parts Used ► floral bud

Distribution ► Mediterranean regions

Guzman/Siemonsma 1999

Capparis spinosa L. ssp. *rupestris* (Sm.) Nyman

Common Names ► *French*: câprier; *German*: Dornenloser Kapernstrauch; *Italian*: capparo, cappari, chiapara; *Portuguese*: alcoparras, alcaparreira; *Spanish*: tàpara, alcaparra (flower buds), gorrinets (fruits)

Usage ► condiment

Parts Used ► floral bud

Distribution ► Mediterranean regions, N Africa; N India

Erhardt et al. 2002; Rivera et al. 2003

CAPSELLA Medik. – Shepherd's Purses – Brassicaceae (Cruciferae)

Capsella bursa-pastoris (L.) Medik.

Synonyms ► *Bursa pastoris* Weber, *Thlaspi bursa-pastoris* L.

Common Names ► capsell, farmer mustard, case weed, mother heart, shepherd's purse, paniquesillo, toy wort; *Chinese*: chi tsai, ji cai; *French*: bourse à pasteur, capselle, capselle à pasteur; *German*: Bauernsenf, Gemeines Hirtentäschel, Herzkraut, Täschel, Taschenkraut; *Italian*: borsacchina, borsa del pastore; *Korean*: naeng-i; *Portuguese*: bolsade-pastor, erra do bompastor; *Russian*: pastuschija sumka; *Spanish*: bolsa de pastor, zurrón de pastor; *Vietnamese*: co tam giac, dinh lich, te thai

Usage ► spice for soups and stews (rarely)

Parts Used ► pods, young leaves

Distribution ► Europe, origin Mediterranean area(?), today spread worldwide, except tropical areas; cultivated in China

Note ► The green pods have a peppery taste; different cultivars exist.

Dhar/Dhar 2000; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hoppe 1949; Kos-

chtschejew 1990; Loch 1993; Schönfelder 2001; Schultze-Motel 1986; Tull 1999; Turova et al. 1987; Uphof 1968; Wyk et al. 2004; Zeven/de Wet 1982

C

CAPSICUM L. - Chillis, Paprika, Bird's Eye Chilli, Pepper - Solanaceae

Alkämper 1972; Andrews 1985, 1998; D'Arcy/Eshbaugh 1974; Bois 1934; Davidson 1999; Ernö 1985; Ferrão 1992; Ferrari/Aillaud 1971; Forster/Cordell 1992; Gordon-Smith 1996; Govindarajan 1985, 1986; Govindaraja et al. 1988; Govindarajan/Sathyanarayan 1990; Hager 4, 1992; Heiser/Pickersgill 1969; Heiser/Smith 1953; Herrmann 1999; Jurenitsch et al. 1979; Long-Solis 1986; Maga 1975; Newall et al. 1996; Oberdieck 1988; Palevitch/Craker 1995; Peter 2001; Rabinowitsch/Brewster 1999; Raunert 1939; Schönfelder 2001; Schratz/Rangoonwala 1966; Seidemann 1997a; Shin et al. 2001; Somos 1981; Somos/Kundt 1984; Terpó 1966; Teuner et al. 1993; Vaupel 2002 a, b; Zoschke 1997;

Capsicum annuum L. var. annuum

Common Names ▶ bell pepper, capsicum pepper, Cayenne pepper, cherry pepper, Chile pepper, chile (pepper), cone pepper, green capsicum, green pepper, paprika, red pepper, sweet pepper, Pandrón-pepper; *Arabic*: filfil ahmar; *Chinese*: la chiao; *Dutch* spaanse peper; *French*: piment doux, poivre de Cayenne, poivre d'Espagne, poivre rouge; *German*: Beißbeere, Einjährige Paprika, Cayenne Pfeffer, Spanischer or Ungarischer Pfeffer, Türkischer Pfeffer, Schotenpfeffer; *Italian*: peperone; *Hindi*: lalmica; *Indonesian*: cabe besar, lombok besar; *Japanese*: hsiug ya-li chiao; *Korean*: kochu; *Malaysian*: lada besar; *Portuguese*: pimento; *Russian*: perez strukovyj; *Sanskrit*: kutavira, raktamarica, suédois; *Slovenian*: ročná paprika; *Spanish*: ají, chile, guindilla, pimiento; *Thai*: pulang sili

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ only cultivated form; Mexico; tropical America

Note ▶ This is the most widely spread and highly cultivated of all *Capsicum* species; probably first domesticated in Mexico. The very hot, peppery varieties, with high capsaicin content, are used as spices and seasoning; also in medicine. Fruits with small capsaicin content are used as vegetables, cooked or raw. They are subdivided into the following sorts:

cerasiforme-group: cherry pepper; *German*: Zier-Paprika

conioides-group: cone pepper; *German*: cone pepper

fasciculatum-group: red cone pepper; *German*: Büschel-Paprika

grossum-group: bell pepper, pimento, sweet pepper; *German*: Gemüse- or Süßer Pfeffer

longum group: Cayenne pepper, Chili (pepper); *German*: Cayennepfeffer, Peperoni.

Aichele/Schwegler 4, 1995; Alberts/Muller 2000; Ananda Nayaki/Natarajan 2000; Bärtels 1997; Bendel 2002; Berger 3, 1952; Berta 2000; Bois 1934; Burkill 5, 2000; Buttery et al. 1969; Cheers 1998; Coiciu/Racz (no year); Craze 2002; Csiktusnádi et al. 2000; Dalby 2000; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Estrada et al. 2000; Farrell 1985; Forgacs et al. 1996; Gnafeed et al. 2001; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Jansen 1981; Jurenitsch et al. 1979; Kirschbaum-Titze et al. 2002; Kobata et al. 1998; Krstic et al. 2001; Leung 1991; Lunig et al. 1995; Maoka et al. 2001; Melchior/Kastner 1974; Molnár et al. 2000; Morais et al. 2001; Morris/Mackley 1999; Norman 1991; Oruña-Conda et al. 1996; Perucka/Oleszek 2000; Peter 2001; Pochljobkin 1974, 1977; Pruthi 1976; Pursglove 1968; Rosengarten 1969; Rubio et al. 2002; Schröder 1991; Schultze-Motel 1986; Seidemann 1993; Seidemann/Siebert 1987; Sekiwalijima et al. 2001; Sharma 2003; Siewek 1990; Simioan et al. 2004; Small 1997; Soo Hyun et al. 1997; Staesche 1972; Surk et al. 1996; Täufel et al. 1993; Terpó 1966; Teuscher 2003; Tindall 1983; Tucker 1986; Tull 1999; Villalón et al. 1994; Villamar et al. 1994; Wolters 1996; Yayeh Zewdie/Bosland 2000; Zeven/de Wet 1982

Capsicum annuum L. var. glabriusculum (Desf.) C.B. Heiser et Pickersgill

Synonyms ▶ *Capsicum minimum* Mill., *Capsicum annuum* L. var. *minimum* (Mill.) Heiser, *Capsicum hispidum* Dunal var. *glabriusculum* Dunal

Common Names ▶ American bird pepper, bird pepper; *German*: Vogelpfeffer; *India*: gach mirichi, lalmirichi, marcha, marichiphalam, perangimulik; *Japanese*: kôreigus, tō gara shi; *Pilipino*: sili; *Russian*: ptitschii perez, melkij perez, stolowij perez; *Spanish*: ají, chilipiquin, chiltepe, chiltepin

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ wild form; cultivated: Mexico, USA, Caribbean, Meso-America, W, S America

Hager 4, 1992; Hanelt 2001; Pochljobkin 1974, 1977; Schultze-Motel 1986; Terpó 1966; Tucker 1986

 Capsicum annum L. var. minimum (Mill.)
Heiser

- *Capsicum annum L. var. glabriusculum (Dunal.)*
C.B. Heiser et Pickersgill

 Capsicum baccatum L. var. baccatum

- Synonyms** ▶ *Capsicum microcarpum* Cav.
Common Names ▶ Peruvian pepper; *Spanish*: locoto
Usage ▶ spice
Parts Used ▶ fruit
Distribution ▶ wild form; S America: Peru, Bolivia, S Brazil, Paraguay, N Argentina

Eshbaugh W.H. 1970; Hager 4, 1992; Hanelt 2001; Melchior/Kastner 1974; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Terpo 1966; Tucker 1986; Zeven/de Wet 1982

 Capsicum baccatum L. var. pendulum
(Willd.) Eshbaugh

- Synonyms** ▶ *Capsicum pendulum* Willd.
Common Names ▶ Brown's pepper, Peruvian pepper;
French: piment chien; *German*: Peruanischer Pfeffer; *Spanish*: ají, escabeche, piris, uchu (*Peruvian*)
Usage ▶ spice
Parts Used ▶ fruit
Distribution ▶ only cultivated, mostly in S America, also in C America, USA, Hawaii, India, Japan, S Europe
Note ▶ Archaeological findings in the late precaramic (ca. 2500 BC) from Peru.

Dalby 2000; Eshbough 1970; Hanelt 2001; Jurenitsch et al. 1979; Melchior/Kastner 1974; Pruthi 1976; Schultze-Motel 1986; Small 1997; Terpo 1966; Tucker 1986

 Capsicum cardenasii C.B. Heiser et P.G. Sm

- Usage** ▶ spice, flavoring
Parts Used ▶ fruit
Distribution ▶ W, S America

Hager 4, 1992; Terpo 1966; Zeven/de Wet 1982

 Capsicum chinense Jacq.

Synonyms ▶ *Capsicum luteum* Lam.

Common Names ▶ bonnet pepper, Chinese pepper, dátil pepper, Habañero (pepper), piri-piri pepper, scotch bonnet, squash pepper, tabasco pepper, yellow squash pepper; *Brazil (Portuguese)*: piri-piri; *German*: Chinesische Paprika, Habanero, Tabasco-Pfeffer; *Spanish*: rocotillo

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ W, S Amazonas: Brazil; cultivated; wild forms unknown; widely cultivated in the Neotropics

Note ▶ Archaeological remains from Peru suggest domestication 10,000 years ago.

Burkhill 5, 2000; Hager 4, 1992; Hanelt 2001; Jurenitsch et al. 1979; Melchior/Kastner 1974; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Smith/Heiser 1957; Terpo 1966; Tucker 1986; Zeven/de Wet 1982

 Capsicum fastigiatum Bl.

- *Capsicum frutescens L.*

 Capsicum frutescens L.

Synonyms ▶ *Capsicum fastigiatum* Bl., *Capsicum minimum* Roxb.,

Common Names ▶ Cayenne pepper, hot pepper, bird pepper, red chilli, spur pepper, tabasco (pepper); *Arabic*: schatta; *Dutch*: chili peper, spaanse peper; *French*: poivre de Cayenne, piment de cayenne, piment oiseau, poivre rouge; *German*: Cayennepfeffer, Chayenne, Chili(s), Tabasco (Pfeffer), Vogelpfeffer; *Indonesian*: cabe, cili, cili rawit, lombok; *Italian*: capsico, diavoleto; *Malaysian*: lada, cili, cili padi; *Portuguese*: pimenta malagueta; *Russian*: perez struzkovij; *Slovenian*: paprika čili; *Spanish*: ají, chile, fruto de capsico, guindilla, pimienta de Cayena, pimienta picante; *Thai*: phrik kheefa

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ tropical America: S Mexico to Costa Rica; India to Polynesia, worldwide in tropical and subtropical regions

Berger 3, 1952; Bois 1934; Burkill 5, 2000; Cheers 1998; Craze 2002; Cserháti et al. 2000; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Farrell 1985; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Howard et al. 1994; Leung 1991; Melchior/Kastner 1974; Morris/Mackley 1999; Norman 1991; Peter 2001; Pruthi 1976; Pursglove 1968; Rosengarten 1969; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Staesche 1972; Täufel et al. 1993; Terpo 1966; Tindall 1983; Tucker 1986; Usher 1968; Villalón et al. 1994; Villamar et al. 1994; Wyk et al. 2004; Zeven/de Wet 1982

Capsicum guatemalense Bitter

➤ *Capsicum pubescens* Ruiz et Pav.

Capsicum hispidum Dunal var. **glabriusculum** Dunal

➤ *Capsicum annuum* L. var. *glabriusculum* (Dunal) C.B. Heiser et Pickersgill

Capsicum luteum Lam.

➤ *Capsicum chinense* Jacq.

Capsicum microcarpum Cav.

➤ *Capsicum baccatum* L. var. *baccatum*

Capsicum minimum Mill.

➤ *Capsicum annuum* L. var. *glabriusculum* (Dunal) C.B. Heiser et Pickersgill

Capsicum minimum Roxb.

➤ *Capsicum frutescens* L.

Capsicum pendulum Willd.

➤ *Capsicum baccatum* L. var. *pendulum* (Willd.) Eshbaugh

Capsicum pubescens Ruiz et Pav.

Synonyms ▶ *Capsicum guatemalense* Bitter

Common Names ▶ apple chilli, chilli manzana; **Dutch**: paprika; **German**: Filziger Paprika, Apfel-Chili, Baum-Chili; **Indonesian**: cabe bendot, cabe gondol; **Javanese**: cabe dieng; **Spanish**: chamburoto, chile japonés, chile manzana, escabeche, lacoto, siete caldos, rocoto (Peru)

Usage ▶ spice (used like *Capsicum annuum* L. var. *annuum*)

Parts Used ▶ fruit

Distribution ▶ not wild; cultivated from Mexico to S Bolivia, especially in the Andes (Bolivia, Peru, Columbia)

Note ▶ Probable origin in Bolivia; the fruits are said to be of mild to strong pungency.

Almela et al 1991; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Heiser/Smith 1953; Pruthi 1976; Seidemann 1993c; Small 1997; Täufel et al. 1993; Terpo 1966; Tucker 1986; Wilkins 1992; Zeven/de Wet 1982; Zimmermann/Schieberle 2000

CARDAMINE L. - Bitter Cress - Brassicaceae (Cruciferae)

Cardamine parviflora L.

Common Names ▶ **German**: Kleinblütiges Wiesen-schaumkraut

Usage ▶ pot-herb (rarely)

Parts Used ▶ young herb

Distribution ▶ Europe, native in Algeria

Erhardt et al. 2002; Fleischhauer 2003

Cardamine pratensis L.

Common Names ▶ cuckoo flower, lady's smock, bitter cress, meadow cress, spinks; **Dutch**: pinksterbloem; **French**: cardamine des prés, cresson élégant, cressonnette, cresson des prés; **German**: Wiesenkresse, Wiesen-schaumkraut; **Italian**: cardamino dei prati, billeri, crescione dei prati, violo da pesci; **Portuguese**: agrião dos prados, cardamina dos prados; **Russian**: lugowoj kress, polewaja

gortschiza, serdetschnik, smojanka; *Spanish*: cardamina, berros de prado; mastuerzo de prado

Usage ▶ pot-herb, substitute of water cress

Parts Used ▶ young fresh herb

Distribution ▶ Europe, British Isles, W, E Siberia, Kamchatka, W Tibet, Korea, Alaska, Canada, NE USA

Aichele/Schwegler 3, 1995; Bremness 2001; Cheers 1998; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Heger 5, 1993; Hiller/Melzig 1999; Koschtschew 1990; Pochl-jobkin 1974, 1977; Schnelle 1999; Schönfelder 2001; Seidemann 1993c; Stobert 1978; Täufel et al. 1993; Tucker 1986; Uphof 1968



Cardamine resedifolia L.

Common Names ▶ *German*: Resedablättriges Schaumkraut

Usage ▶ pot-herb (rarely)

Parts Used ▶ young herb

Distribution ▶ Europe, Caucasus, Iran, W, E Siberia, Amur, Mongolia, Tibet, E Asia

Erhardt et al. 2002; Fleischhauer 2003



Cardamine trifolia L.

Common Names ▶ trifoliate bitter cress; *French*: cardamine à trois feuilles; *German*: Dreiblättrige Zahnwurz, Kleeblättriges Schaumkraut

Usage ▶ pot-herb (rarely)

Parts Used ▶ young herb

Distribution ▶ EC Europe, Slovenia, Croatia, Bosnia

Erhardt et al. 2002; Fleischhauer 2003



Cardaminum nasturtium Moench

▶ *Nasturtium officinale* R. Br.



Cardamomum dealbatum Kuntze

▶ *Amomum maximum* Roxb.



Cardamomum officinale Salisb.

▶ *Elettaria cardamomum* (L.) Maton



Cardamomum subulatum Kuntze

▶ *Amomum subulatum* Roxb.

CARDARIA L. - Brassicaceae (Cruciferae)



Cardaria draba (L.) Desv.

Synonyms ▶ *Lepidium draba* L.

Common Names ▶ hoary cress, whitetop; *French*: cardaire, passeraie drave; *German*: Pfeilkresse, Türkenkresse, *Russian*: chrinnizja krupkowidna

Usage ▶ spice, condiment

Parts Used ▶ leaf, pungent seed

Distribution ▶ N Africa: Egypt, temperate Asia, India, E, SE and SW Europe, widely native elsewhere

Aichele/Schwegler 3, 1995; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Schultze-Motel 1986; Seidemann 1993c; Teuscher 2003; Uphof 1968

CARDIOSPERMUM L. - Sapindaceae



Cardiospermum halicacabum L.

Common Names ▶ balloon vine, heart pea, heart-leaved pea, heart seed, winter cherry; *Chinese*: jia hu gua; *French*: pois de coeur; *German*: Ballonpflanze, Ballonrebe, Herzerbse, Herzsame; *India*: bodha, indravalli, laftaf, malmai, paravati padi, uzina; *Japanese*: papaia, manjui; *Malaysian*: peria bulan, uban kayu; *Pilipino*: patul parolan, bangkolon

Usage ▶ pot-herb (in India)

Parts Used ▶ young leaf

Distribution ▶ USA: Florida, SE tropical America, tropical Africa, India, also cultivated

Arora/Pandey 1996; Erhardt et al. 2000, 2002; Hager 4, 1992; v. Koenen 1996; Pschyrembel 1998; Wiersoma/León 1999

Sharma 2003; Storrs 1997; Täufel et al. 1993; Tschirch 1892; Uphof 1968; Verheij/Coronel 1991; Villamar et al. 1994; Wolters 1994; Wyk et al. 2004; Zeen/de Wet 1982

C

**Carduus marianus L.**

➤ *Silybum marianum* (L.) Gaertn.

**Carduus tinctorius (L.) Falk.**

➤ *Carthamus tinctorius* L.

CARICA L. - Papaya, Pawpaw - Caricaceae

**Carica papaya L.**

Synonyms ▶ *Papaya communis* Noronha, *Papaya vulgaris* DC.

Common Names ▶ papaya, paw-paw, melone tree; *Arabic*: fafy, pawpaw; *Chinese*: fan kua, jia hu gua, shu kua, wan shou guo; *French*: arbre de melon, melon de tropiques, papayer; *German*: Melonenbaum, Papaya; *Hindi*: papita; *India*: papeeta; *Indonesian*: pepaya; *Italian*: carica, papaia, papaja; *Japanese*: papaia, manjui; *Malaysian*: betek, betik, papaya; *Mexico*: melón zapote; *Pilipino*: papaya; *Portuguese*: mamoeiro (plant), mamão (fruit); *Russian*: papjja, dunnoe; *Sanskrit*: erandakarkati; *Spanish*: higo de mastuero, lechosa, mamón, papayo, papayero, fruta bomba; *Swahili*: mpapai; *Thai*: malakaw; *Vietnamese*: du du xan

Usage ▶ spice, source and product of chymopapain and papain

Parts Used ▶ seed

Distribution ▶ native likely Mexico, C America, West Indies, E Andes

Note ▶ The seeds are used instead of black pepper, sporadically as falsification.

Aedo et al. 2001; Aké Assi/Guinko 1991; Bendel 2002; Bhattacharjee et al. 2003; Blancke 2000; Cheers 1998; Dastur 1954; Davidson 1999; Engel/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Leung 1991; Lindner 1971; Meisenbacher 1998; Morris/Mackley 1999; Mors et al. 2000; Paradkar et al. 2001; Pschyrembel 1998; Pursglove 1968; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c, 1994b, 1998/2000;

CARISSA L. - Apocynaceae

**Carissa edulis Vahl** ■

Synonyms ▶ *Arduina edulis* (Vahl) Spreng., *Carissa pubescens* A. DC.,

Common Names ▶ carandas plum, Egyptian carissa; *Chinese*: tian jia hu ci; *French*: arbre à cire, carisse; *German*: Essbare Wachsbaumwurzel, Karandapflaume; *Spanish*: ciruela de Natal; *Uganda*: muyonza

Usage ▶ spice, condiment, flavoring for bitters

Parts Used ▶ root

Distribution ▶ S Arabia, tropical Africa, India, Indochina

Note ▶ The fruit pulp is used to produce juice and jam.

Ayensu 1978; Bose 1985; Burkill 1, 1985; Erhardt et al. 2002; Hanelt 2001; v. Koenen 1996; Schultze-Motel 1986; Seidemann 1993; Täufel et al. 1993; Thompson 1976; Wiersema/León 1999

**Carissa pubescens DC.**

➤ *Carissa edulis* Vahl

CARTHAMUS L. - Safflower - Asteraceae (Compositae)

**Carthamus glaber Burm.**

➤ *Carthamus tinctorius* L.

**Carthamus tinctorius L.**

Synonyms ▶ *Carduus tinctorius* (L.) Falk., *Carthamnus glaber* Burm.

Common Names ▶ dyer's saffron, false saffron, safflower, saffron thistle; *Arabic*: asfar, shawrina, gurdum; *Chinese*: hong hua, hong lan hua, hong hua cai;



■ **Carissa edulis**, flowering

French: carthame, carthame de teinturiers, safre, safranon, safran bâlard; **German:** Färberdistel, Saflor, Bastardsafran, Falscher Safran, Touristen-Safran; **India:** kusum, kusumba, kushumba; **Italian:** cartamo, zaffrone; **Japanese:** benibana, kûkwa; **Korean:** itkkot; **Portuguese:** açafrao bastardo; **Russian:** saflor krasil'nyj; **Slovenian:** požlt farbiarsky; **Spanish:** alazor, azafrán bastardo, azafrán canario, azafran del pais, cártamo, Spanish saffron

Usage ► spice, exchange for saffron; dry fruits to put into chutneys, dye stuff; **product:** greasy oil of saffron (fruit)

Parts Used ► flower, fruit

Distribution ► probable origin W Asia; widely cultivated in N Africa, China, India, and the USA

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 1, 1949; Bois 1934; Boisvert/Hubert 2000; Burkill 1, 1985; Cheers 1998; Coiciu/Racz (no year); Craze 2002; Dastur 1954; Davidson 1999; Erhardt et al. 2002; Hanelt 1961, 1963; 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Hyun-Jung Kim et al. 2000; Kazuma et al. 2000; Knowles 1955, 1958; Körber-Grohne 1989; Lewington 1990; Melchior/Kastner 1974; NICBPB 1987; Pruthi 1976; Pursglove 1968;

Schenck/Naundorf 1966; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c, 2000; Sharma 2003; Small 1997; Smith 1996; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wealth of India 2. 1950; Weiss 1971; Wyk et al. 2004; Zeven/de Wet 1982



Carthartocarpus fistula Pers.



Cassia fistula L.

CARUM L. - Caraway - Apiaceae (Umbelliferae)



Carum anisum (L.) Baill.



Pimpinella anisum L.



Carum aromaticum Druce



Trachyspermum ammi (L.) sprague



Carum bulbocastanum Koch



Bunium bulbocastanum L.



Carum carvi L.

Synonyms ► *Carum velenovskyi* Rohlena

Common Names ► (common) caraway; **Arabic:** karauya;

Chinese: fang feng, se lu zi, shan-chu-tsai, yuan sui, zang hui xiang; **French:** anis des vosges, carvi, cumin de prés; **German:** (Echter) Kümmel, Brotkümmel, Feldkümmel, Wiesenkümmel, Carbe, Karbensamen; **Hindi:** syahjira; **India:** siyah jira, siah seerah; **Italian:** cumino dei prati; cumino tedesco, karawiya; **Korean:** kharum; **Portuguese:** alcarávia; **Russian:** tmin, timon, tmin obyknovennyj; **Sanskrit:** krsnajoraka; **Slovenian:** rasca; **Spanish:** alcaravea, carvi, comino de prado, hinojo de prade; **Turkish:** frenk kimionou

Usage ► spice; **product:** essential oil (caraway oil) and for production of alcoholic beverages, e.g. "Al-lasch"

Parts Used ► fruits

Distribution ▶ N Africa, temperate Asia, India, Europe, widely cultivated in temperate regions

Note ▶ In Germany used with anise, coriander and fennel fruits are sold as “bread spice”.

Ahro et al. 2001; Aichele/Schwegler 3, 1995; Bärtels 1997; Baysal/Starmans 1999; Berger 3, 1952; Bois 1934; Boisvert/Hubert 2000; Bournot 1968; Bouwmeester et al. 1995; Bremness 2001; Cabizza et al. 2001; Cheers 1998; Coiciu/Racz (no year); Craze 2002; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Farrell 1985; Fleischhauer 2003; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Krüger/Zeiger 1993; Matsumura et al. 2002; Morris/Mackley 1999; Norman 1991; Partanen et al. 2002; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rosengarten 1969; Roth/Korzmann 1997; Salveson/Svensden 1976; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Sedlakova et al. 2001; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Ubillos 1989; Uphof 1968; Wüstenfeld-Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Carum copticum (L.) Benth.

▶ *Trachyspermum ammi* (L.) Sprague

Carum involunratum (Roxb.) Baill.

▶ *Trachyspermum roxborhianum* (DC.) Craib.

Carum petroselinum Benth. et Hook.

▶ *Petroselinum crispum* (Mill.) Nym.

Carum roxburghianum Benth.

▶ *Trachyspermum roxburghianum* (DC.) Craib.

Carum velenovskyi Rohlena

▶ *Carum carvi* L.

Carvi bulbocastanum Bub.

▶ *Bunium bulbocastanum* L.

Caryophyllata officinalis Moench

▶ *Geum urbanum* L.

Caryophyllata urbana Scop.

▶ *Geum urbanum* L.

Caryophyllus aromaticus L.

▶ *Syzygium aromaticum* (L.) Merr. et L.M. Perry

CASSIA L - Shower Tree - Fabaceae (Leguminosae)

Cassia fistula L.

Synonyms ▶ *Cathartocarpus fistula* Pers.

Common Names ▶ golden shower, Indian laburnum, pudding pipe tree, purging cassia, purging fistula; *Brazil (Portuguese)*: canafistule, tapira coinana; *Chinese*: guo mai long lang, huai hua ching; *French*: bâton casse, canéficier, casse fistuleuse; *German*: Röhrenkassia, Indischer Goldregen; *Hindi*: amaltas, jagaruwa, sinara, sundali; *Indonesian*: bereksa, kasia sena, tengguli, trangguli; *Japanese*: nanban saikachi; *Javanese*: keyok, klohor; *Malaysian*: bereksa, rajah kayu, tēngguli, kasia sena; *Mexico*: canafistula, canapistola; *Pilipino*: caña pistula; *Sanskrit*: arabadha, suvarnaka; *Spanish*: canafistula; *Thai*: khuun, kun, raja pruk

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ possible origin tropical Asia (India, Sri Lanka, Indonesia), widely cultivated and native in the Tropics.

Note ▶ Dadawa kalva, a local spice preparation in northern Nigeria, obtained from carob bean.

Berger 3, 1952; Cheers 1998; Dashak et al. 2001; Dastur 1954; Engel/Phummai 2000; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Kottegoda 1994; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Storrs 1997; Täufel et al. 1993; Uphof 1968; Villamar et al. 1994; Warren 1998; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Yueh-Hsing Kuo et al. 2002; Zewen/de Wet 1982

 Cassia obtusifolia L.

➤ *Senna obtusifolia* (L.) Irwin et Barneby

**CASSINE L. -
Celastraceae**
 Cassine crocea (Thunn.) Kuntze

Synonyms ▶ *Crocoxylon croceum* (Thunb.) N. Robson

Common Names ▶ small-leaved saffron, saffron cassine;

German: Schmalblättiger Safran; *S Africa*: fyn-blaar-saffraan

Usage ▶ spice (rarely)

Parts Used ▶ flower

Distribution ▶ Southern Africa

Quattrocchi 1999

 Cassine metabelica (Loes) Steedman

Synonyms ▶ *Elaeodendron metabelica* Loes

Common Names ▶ *German*: Cassineholz

Usage ▶ spice for meat (at barbecue)

Parts Used ▶ wood

Distribution ▶ Southern Africa: Kalahari

Note ▶ Barbecue (meat) with the wood give a spicy aroma.

Neuwinger 1999; Quattrocchi 1999

 Cassumunar roxburghii Colla

➤ *Zingiber cassumunar* Roxb.

 Cathartocarpus fistula Pers.

➤ *Cassia fistula* L.

**CECROPIA Loeffl. - Snake Wood -
Cecropiaceae (Moraceae)**
 Cecropia asperrima Pitt.

➤ *Cecropia peltata* L.

 Cecropia peltata L.

Synonyms ▶ *Cecropia asperrima* Pitt.

Common Names ▶ Congo pump, trumpet tree, pop-a-gun, snake wood; *Brazil (Portuguese)*: ambaúba, embaúba, abaiba, imbaúba; *French*: bois cannon, tranpetier; *German*: Karibischer Ameisenbaum, Kanonenbaum, Trompetenbaum; *Portuguese*: ambaitinga, imbaúba; *Spanish*: changrarro, guarumo, yagrumo

Usage ▶ pot-herb

Parts Used ▶ young pods

Distribution ▶ C America, West Indies, tropical S America

Erhardt et al 2002; Rättsch 1998; Uphof 1968; Wiersema/León 1999

**CEDRONELLA Moench -
Lamiaceae (Labiatae)**
 Cedronella canariensis (L.) Webb et Berth.

Synonyms ▶ *Cedronella triphylla* Moench,

Common Names ▶ balm of Giliad, canary balm; *French*: baume de galaad; *German*: Balsamstrauch; *Portuguese*: hortelã de burro, meutastro; *Spanish*: thé des Canaries

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Canary Islands, Azores, Madeira.

Note ▶ The plant is very frost-sensitive.

Bremness 2001; Carreiras et al. 1987; Cheers 1998; Engel et al. 1991; Erhardt et al 2002; López-García et al. 1991, 1992

 Cedronella japonoca Hassk.➤ *Agastache rugosa* (Fisch. et C.A. Mey.) Kuntze **Cedronella mexicana** (Kunth) Benth.➤ *Agastache mexicana* (Kunth) Lint et Epling **Cedronella triphylla** Moench➤ *Cedronella canariensis* (L.) Webb et Berth. **Celastrus senegalensis** Lam.➤ *Maytenus senegalensis* (Lam.) Exell **Cellus edodes** (Berk.) Ito et Imai➤ *Lentinus edodes* (Berk.) Sing.**CELOSIA L. - Cockscomb, Woolflower - Amaranthaceae** **Celosia argentea** L. var. *cristata* (L.) Kuntze**Synonyms** ▶ *Celosia cristata* L., *Celosia splendens* Schum. et Thonn.**Common Names** ▶ cockscomb, red fox, red spinach; *Ara-bic*: katifa orf el-deek; *Chinese*: ji guan hua, qing xiang zi, quimg hsiang, ye chi kuan; *French*: crête de coq, célosie; *German*: Silber-Brandschopf, Silber-Hahnenkamm; *Hindi*: lal murghka, kokan, pile murghka, sufaid murga, sarwari, silara; *Indo-nesian*: borotyo, jenggar ayam; *Italian*: cresta di gallo; *Japanese*: no-geito, keitô; *Malaysian*: balung ayam; *Portuguese*: crista de galo; *Spanish*: cresta de gallo**Usage** ▶ pot-herb**Parts Used** ▶ leaf**Distribution** ▶ Asia: India, Sri Lanka

Burkill 1985; Erhardt et al. 2001; Kays/Dias 1995; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Celosia cristata L.➤ *Celosia argentea* L. var. *cristata* (L.) Kuntze **Celosia isertii** C.C. Townsend**Synonyms** ▶ *Celosia laxa* Dalziel**Common Names** ▶ cockscomb; *French*: célosie, crête de coq; *German*: Brandschopf, Hahnenkamm; *Russian*: petuschij predeschok**Usage** ▶ flavoring for sauces and soups, pot-herb**Parts Used** ▶ herb**Distribution** ▶ W Africa: from Senegal, the Gambia to Nigeria, Angola, Cameroon, Gabon, Zambia

Burkill 1, 1985; Irvine 1956

 Celosia laxa Dalziel➤ *Celosia isertii* C.C. Townsend **Celosia splendens** Schum. et Thonn.➤ *Celosia argentea* L. var. *cristata* (L.) Kuntze **Celosia trigyna** L.**Synonyms** ▶ *Celosia triloba* E. Meyer ex Meisn.**Common Names** ▶ *German*: Dreigriffeliger Hahnenkamm; *S Africa*: hanekam, isihlaza**Usage** ▶ flavoring (sauces, soups), seasoning**Parts Used** ▶ leaf**Distribution** ▶ W Africa: Senegal, the Gambia, Nigeria, Upper Volta, Sierra Leone, Madagascar, Arabia; also cultivated in Africa

Burkill 1, 1985; Uphof 1968; Zeven/de Wet 1982

 Celosia triloba E. Meyer ex Meisn.➤ *Celosia trigyna* L.

CELTIS L. - Nettle tree - Ulmaceae

Celtis integrifolia Lam.

Common Names ▶ African false elm, African nettle tree;

French: micocoulier, micocoulier africain, micocoulier d'Afrique; *German*: Afrikanischer or Ganzblättriger Zürgelbaum

Usage ▶ pot-herb in soups and sauces

Parts Used ▶ leaf

Distribution ▶ W Africa: the Gambia, Guinea, Mali, Senegal, Arabia

Dalziel 1937; Erhardt et al. 2002; Irvin 1948; Mabberly 1997; Usher 1974

Centaurea benedicta (L.) L.

➤ *Cnicus benedictus* L.

CENTAURIUM Hill. - Centaury - Gentianaceae

Centaureum erythraea Rafn.

Synonyms ▶ *Centaureum minus* (L.) Pers., *Centaureum umbellatum* Gilib., *Erythraea centaurum* (L.) Pers.

Common Names ▶ common centaury, centaury, feverwort, pink centaury; *French*: erythrée, petite centaurée, herbe à mille florins; *German*: Centorelle, Magenkraut, Echtes Tausendgüldenkraut, Kopfiges Tausendgüldenkraut, Sanktoriakraut; *Italian*: biondella, caccia febbre, centaurea minore; *Russian*: solototycjatschnik malyj; *Spanish* centaurea menor

Usage ▶ spice, flavoring

Parts Used ▶ herb

Distribution ▶ N Africa, temperate Europe to W Asia

Note ▶ The herb is used for seasoning brandy in Hungary; often wild plants are used.

Aichele/Schwegler 3, 1995; Aquino et al. 1985; Bellarita et al. 1974; Berger 4, 1954; Bilgri/Adam 2000; Charalambous 1994; Clair 1961;



 **Centaureum erythraea, flowering**

Erhardt et al. 2002; Fleischhauer 2003; Hager 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Kaouadji/Mariotte 1986; Länger 1990; Newall et al. 1996; Pschyrembel 1998; Schimmer/Mauthner 1994; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; van der Sluis/Labadie 1978; Turova et al. 1987; Valentão et al. 2001; Wüstenfeld/Haensel 1964; Wyk et al. 2004

Centaureum minus (L.) Pers.

➤ *Centaureum erythraea* Rafn.

Centaureum umbellatum Gilib.

➤ *Centaureum erythraea* Rafn.

Cepa prolifera Moench

➤ *Allium x proliferum* (Moench) Schrad. ex Willd.

 Cepa victoralis Moench

➤ *Allium victoralis* L.

C

**CERASTIUM L. - Mouse Ear -
Caryophyllaceae**

 Cerastium semidecandrum L.

Common Names ▶ mouse-ear chickweed; *German*: Sand-Hornkraut

Usage ▶ pot-herb (rarely)

Parts Used ▶ herb

Distribution ▶ Europe, Cyprus, Turkey, Caucasus, N Iran

Erhardt et al. 2002; Fleischhauer 2003; Uphof 1968

 Cerasus laurocerasus (L.) Loisel

➤ *Prunus laurocerasus* L.

 Cerasus mahaleb (L.) Mill.

➤ *Prunus mahaleb* L.

**CERATONIA L. – Carob -
Caesalpiniaceae (Fabaceae)**

 Ceratonía coriacea Salisb.

➤ *Ceratonía siliqua* L.

 Ceratonía inermis Stokes

➤ *Ceratonía siliqua* L.

 Ceratonía siliqua L.

Synonyms ▶ *Ceratonía coriacea* Salisb., *Ceratonía inermis* Stokes



 **Ceratonía siliqua**: a flowering, b fruits

Common Names ▶ carob, locust bean, St. John's bread;
Arabic: charrûb, chiruub, klarroub, nubti; *Chi-*

nese: jiao dou shu, huai shu; *Dutch*: karobbe, karube, St. Jansbrood; *French*: carobier, caroube, carouge; *German*: Johannisbrot, Judasbaum, Karobe; *Italian*: carrubio, pane di santo Giovanni; *Malaysian*: gēlenggang; kēchil; *Portuguese*: alfarrobeira; *Russian*: roshkoboe, judino derevo; *Spanish*: algarrobo, caroba, garrofa; *Thai*: chum het tai

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ SE and SW Europe: Iberia, France, N Africa, W Asia, widely cultivated and native. The area of origin is presumably the E Mediterranean region or the Arab Peninsula

Anon. 1993; Avallone et al. 1997; Bärtels 1997; Berger 3, 1952; Cheers 1998; Coit 1951; Davidson 1999; Davis 1970; Duke et al. 2003; Erhardt et al. 2002; Grainger /Winer 1980; Hager 4, 1992; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Hills 1980; Hoppe 1949; Koebnick/Zunft 2004; Lewington 1990; Lück 2000; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Winer 1980; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

CERCIS L. - Red Bud - Caesalpinaceae (Fabaceae)

 **Cercis florida** Salisb.

▶ *Cercis siliquastrum* L.

 **Cercis siliquastrum** L.

Synonyms ▶ *Cercis florida* Salisb.

Common Names ▶ Judas tree, love tree, red bud, St. John's bread; *Arabic*: argûân, khazrîq, zamzariq; *French*: arbre de Judée, gainier; *German*: (Gewöhnlicher) Judasbaum, Wildes Johannisbrot; *Italian*: albero di Giuda, chiantanella, tregano; *Japanese*: seiyo hanazuo; *Portuguese*: olaia; *Russian*: bagrjannik, judino derevo; *Turkish*: arcuan

Usage ▶ spice: substitute for capers.

Parts Used ▶ flower bud

Distribution ▶ Mediterranean region, S Europe to Iran, N Africa, often cultivated

Bärtels 1997; Cheers 1998; Coit 1951; Erhardt et al. 2002; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Zeven/de Wet 1982

CEROPEGIA L. - Asclepiadaceae

 **Ceropegia acuminata** Roxb.

▶ *Ceropegia bulbosa* Roxb.

 **Ceropegia bulbosa** Roxb.

Synonyms ▶ *Ceropegia acuminata* Roxb., *Ceropegia lushii* Graham

Common Names ▶ *German*: Knollen-Leuchterblume; *Hindi*: khapparkadu; *India* patal tumbari

Usage ▶ pot-herb

Parts Used ▶ herb, leaf

Distribution ▶ C, W India

Arora/Padney 1996; Erhardt et al. 2002; Hanelt 2001; Wealth of India 2, 1950, 3 1992

 **Ceropegia hirsuta** Wight et Arn.

Synonyms ▶ *Ceropegia hispida* Blatter et McCann.

Common Names ▶ *German*: Borstige Leuchterblume, Rauhhaarige Leuchterblume

Usage ▶ pot-herb (in Indian deserts)

Parts Used ▶ herb

Distribution ▶ India: Deccan Peninsula

Arora/Pandey 1996

 **Ceropegia hispida** Blatter et MacCann.

▶ *Ceropegia hirsuta* Wight et Arn.

 **Ceropegia lushii** Graham

▶ *Ceropegia bulbosa* Roxb.

CHAEROPHYLLUM L. - Apiaceae (Umbelliferae)

C

Chaerophyllum aromaticum L.

Common Names ▶ chervil, spice cow; *French*: cerfeuil des fous; *German*: Aromatischer Kälberkropf, Gewürz-Kälberkropf

Usage ▶ flavoring (rarely)

Parts Used ▶ leaf, seed

Distribution ▶ C Europe to E Europe

Note ▶ The leaves and seeds have a carrot-parsley taste.

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Hager 4, 1992

Chaerophyllum aureum L.

Common Names ▶ *German*: Gold-Kälberkropf

Usage ▶ flavoring (rarely)

Parts Used ▶ leaf

Distribution ▶ C Europe to E Europe, Turkey, Caucasus, N Iran

Note ▶ The leaves have a characteristic parsley aroma.

Aichele/Schwängler 3, 1995; Erhardt et al. 2002

Chaerophyllum bulbosum L.

Synonyms ▶ *Chaerophyllum caucasicum* (Hoffm.) Schischk.

Common Names ▶ bulbous chervil, garden chervil, parsnip chervil, turnip rooted chervil; *German*: Kerbelrübe, Knollenkerbel, Knolliger Kälberkropf

Usage ▶ flavoring (rarely)

Usage ▶ root

Distribution ▶ C, E Europe, Turkey, Iran, Caucasus Altai, Cult in C and SE Europe

Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Loch 1993; Manfeld 1986; Schnelle 1999; Schönfelder 2001; Small 1997; Teuscher 2003; Uphof 1968

Chaerophyllum byzantinum Boiss.

Common Names ▶ Byzantinischer Kälberkropf

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ SE parts of Balkan Peninsula to NW Anatolia

Note ▶ Occasionally cultivated as a spice plant by Turks in Germany (Hessen).

Hanelt 2001

Chaerophyllum caucasicum (Hoffm.) Schischk.

▶ *Chaerophyllum bulbosum* L.

Chalcas koenigii Kurz

▶ *Murraya koenigii* (L.) Spr.

Chalcas paniculata L.

▶ *Murraya paniculata* (L.) Jack

Chamaedrys marum Moench

▶ *Teucrium marum* L.

Chamaedrys officinalis Moench

▶ *Teucrium chamaedrys* L.

Chavica peepuloides Miq.

▶ *Piper peepuloides* (A. Dietr.) Roxb.

Chavica sarmentosa (Roxb. ex Hunter) Miq.

▶ *Piper sarmentosum* Roxb. ex Hunter

CHAMAEMELUM Mill. - Chamomile - Asteraceae (Compositae)

Chamaemelum nobile (L.) All.

Synonyms ► *Anthemis nobilis* L.

Common Names ► flowerhead, garden chamomile, noble chamomile, Roman chamomile; *Brazil (Portuguese)*: camomila nobre, camomila verdadeira, camomila odoranta, macela dourada; *French*: camomille romain; *German*: Römische Kamille; *Italian*: camomilla romana; *Russian*: rimskaja romaschka; *Spanish*: camomila de jardin, manzanilla fina, manzanilla romana

Usage ► spice; **product**: essential oil (Roman chamomile oil) for liqueurs

Parts Used ► flower

Distribution ► Canary Islands, N Africa, N, SW Europe, formerly Soviet Union, widely native and cultivated

Bärtels 1997; Bicchi/Frattini 1987; Bremness 2001; Coiciu/Racz (no year); Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Isaac 1993; Lewington 1990; Newall et al. 1996; Opdyke 1974b; Pschyrembel 1998; Roth/Korzmänn 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Shiva et al. 2002; Small 1997; Ubillos 1989; Wyk et al. 2004; Zeven/de Wet 1982

Chavica retrofracta (Vahl) Miq.

► *Piper retrofractum* Vahl

Chavica sarmentosa (Roxb. ex Hunter) Miq.

► *Piper sarmentosa* Roxb. ex Hunter

CHENOPODIUM L. - Goosefoot - Chenopodiaceae

Chenopodium album L.

Synonyms ► *Chenopodium candidans* Lam., *Chenopodium viride* L.,

Common Names ► blue weed, goose foot, lamb's quar-

ters, pigweed; *Chinese*: hsien, hui t'iao, *French*: anserine blanche; *German*: Weißer Gänsefuß, Weiße Melde; *Hindi*: bethu sag; *Japanese*: shiro akoza; *Portuguese*: anserina branca; *Russian*: mar belaja, mar obyknovennaja; *Spanish*: cenizo blanco

Usage ► pot-herb (rarely)

Parts Used ► leaf, young tops

Distribution ► Europe, cosmopolitical

Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Schnelle 1999; Schultze-Motel 1986; Small 1997; Uphof 1968

Chenopodium ambrosioides L.

Common Names ► American epazote, goosefoot, Jerusalem or Mexican tea, wormseed; *Arabic*: lajouma, natna, sianama; *Dutch*: wormdrijvende ganzevoet; *French*: ambrosie du Mexique, ansérine, ambrosine, herbe à vers, thé du Mexique, *German*: Ambrose, Epazote, Kartäusertee, Wohlriechender Gänsefuß, Mexikanischer Tee, Mexikanisches Traubenkraut, Lima-Tee; *Italian*: ambrosia, chenopodio ambrosioide, tè del Méssico; *Korean*: yaknüngjaengi; *Portuguese*: ambrósia do México; anserine vermifuge, ervate Santa Maria; mar'ambrosiewidnaja; *Spanish*: apazote, aposote, epazote, paico, pazote, hierba hormi uera, té de Méjico; *Vietnamese*: co hoi, dau giun, kinh gioi dat, rau nuoi dai

Usage ► spice, flavoring, condiment; **product**: essential oil

Parts Used ► fresh leaf and herb

Distribution ► cosmopolitica, probable origin Neotropics, widespread in tropical and subtropical America, ruderal in Brazil, W Africa: Sierra Leone, Ghana, Niger; native S Europe

Note ► This polymorphous species has the two cultivated racea: var. *ambrosioides* and var. *anthelminticum*.

Aichele/Schwegler 2, 1994; Bauer/Silva 1973; Berger 4, 1954; Bor-not 1968; Burkill 1, 1985; Coiciu/Racz (no year); Davidson 1999; Erhardt et al. 2002; Erichsen-Brown 1989; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; v. Koenen 1996; Mors et al. 2000; Ochoa/Alonso 1996; Rättsch 1992; Roth/Korzmänn 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Shiva et al. 2002; Small 1997; Täufel et al. 1993; Tucker 1986; Tull 1999; Turova et al. 1987; Uphof 1968; WHO Manila 1990; Wolters 1996; Wyk et al. 2004; Zeven/de Wet 1982

Chenopodium bonus-henricus L.

Synonyms ► *Chenopodium esculentus* Salisb.

Common Names ► allgood, good king Henry; *French*: bon Henri, épinard sauvage, toute-bonne; *German*: Guter Heinrich; *Italian*: buona Enrico, colubrina, tuttabuona

Usage ► pot-herb

Parts Used ► leaf

Distribution ► native to the temperate Old World; spread throughout Europe and Siberia

Bremness 2001; Erhardt et al. 2001; Fleischhauer 2003; Hanelt 2001; Schultze-Motel 1986; Uphof 1968; Zeven/de Wet 1982

Chenopodium botrys L.

Common Names ► Jerusalem oak, feather geranium, slimy anserine herb; *French*: herbe à printemps, piment botris; *German*: Bertholdskraut, Klebriger Gänsefuß, Traubenkraut; *Italian*: botri; *Portuguese*: ambródia dos boticas; *Russian*: mar duschistaja; *Spanish*: biengranada

Usage ► spice

Parts Used ► fresh herb

Distribution ► temperate Asia, India, Himalayas, C Asia introduced to C Europe, S Europe native elsewhere in temperate regions, Turkey, Cyprus, S Africa, Australia, S, N America and locally native

Note ► The herb is an important spice for the S America Indians for meat, fish and vegetables.

Aichele/Schwegler 2, 1994; Berger 4, 1954; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Wiersema/León 1999; Zeven/de Wet 1982

Chenopodium candidans Lam.

► *Chenopodium album* L.

Chenopodium capitatum (L.) Asch.

Common Names ► strawberry blight; *German*: Kopfiger Gänsefuß, Kopfiger Erdbeerspinat

Usage ► pot-herb



 **Chenopodium bonus-henricus, flowering**

Parts Used ► leaf

Distribution ► Eurasia, variously cultivated in Europe

Erhardt et al. 2002; Hanelt 2001; Mansfeld 1962; Schultze-Motel 1986; Small 1997

Chenopodium esculentus Salisb.

► *Chenopodium bonus-henricus* L.

Chenopodium viride L.

► *Chenopodium album* L.

CHIMAPHILA Pursh - Prince's Pine - Pyrolaceae

Chimaphila umbellata (L.) Barton

Synonyms ▶ *pirola umbellata* L.

Common Names ▶ prince's pine; *German*: Doldiges Winterlieb, Nabelkraut, Walddolde

Usage ▶ spice for beer: substitute for hops (locally)

Parts Used ▶ leaf, herb

Distribution ▶ Europe, W Siberia, Sakhalin, Amur, Japan, N. America: Canada, C America: Mexico

Erhardt et al. 2002; Fleischhauer 2003; Hiller/Melziger 1997; Rätsch 1998; Wiersema/León 1997

Distribution ▶ wild in China; cultivated in E Asia: S China, Vietnam, Japan, Malaysia, Java and Sumatra.

Arctander 1960; Burkill 1966; Hanelt 2001; Heyne 1953; Oyen/Dung 1999; Schultze-Motel 1986; Seidemann 1993; Zeven/de Wet 1982

Chlorocodon whitei Hook.f.

▶ *Mondia whitei* (Hook.f.) Skeels

CHRYSANthemum L. - Chrysanthemum - Asteraceae (Compositae)

Chrysanthemum balsamite L.

▶ *Tanacetum balsamite* L.

Chrysanthemum coronarium L.

Synonyms ▶ *Xanthophthalmum coronarium* (L.) Trehane

Common Names ▶ crown daisy, cooking chrysanthemum, garland chrysanthemum, garland, garland daisy; *Chinese*: penghao, t'ung hao; *French*: chrysanthème a couronne; *German*: Goldblume, Kronen-Wuchserblume; *Italian*: crisantemo, fior d'oro; *Japanese*: kikunori kiku-na, shungiku; *Russian*: chrizantema uventschannaja; *Sanskrit*: chandramallika

Usage ▶ condiment, pot-herb

Parts Used ▶ leaf, germinated seedlings

Distribution ▶ S Europe, Italy, Turkey, Israel, N Africa, cultivated in numerous countries, especially in China and Japan

Note ▶ In Japan leaves of various *Chrysanthemum* species are used to produce the seasoning "Shungiku".

Ahmed et al. 1999; Alvarez-Castellanos et al. 2001; Bois 1934; Chuda et al. 1996, 1998; Davidson 1999; Dudtschenko et al. 1989; El-Masry et al. 1984; Erhardt et al. 2000, 2002; Flamini et al. 2003; Hepper 1992; Sanz et al. 1990; Schultze-Motel 1986; Sulas/Caredda 1997; Takenaka et al. 2000; Tucker 1986; Uphof 1968; Zeven/de Wet 1982

CHLORANTHUS Sw. - Chloranthaceae

Chloranthus inconspicuus Sw.

▶ *Chloranthus spicatus* (Thunb.) Makino

Chloranthus indicus Wight

▶ *Chloranthus spicatus* (Thunb.) Makino

Chloranthus obtusifolius Miq.

▶ *Chloranthus spicatus* (Thunb.) Makino

Chloranthus spicatus (Thunb.) Makino

Synonyms ▶ *Chloranthus inconspicuus* Sw., *Chloranthus indicus* Wight, *Chloranthus obtusifolius* Miq., *Nigrina spicifera* Lam.

Common Names ▶ pearl orchid flower, chulan, cha ran; *Chinese*: zhu lem, zu lan hua; *German*: Chloranthusblüten, Perlen-Orchidee; *Indonesian*: barlen; *Japanese*: charan; *Thai*: niam om, foi faa, raam; *Vietnamese*: hoa soi

Usage ▶ spice (sporadically), flavoring for tea

Parts Used ▶ flower, leaf

 Chrysanthemum leucanthemum L.

➤ *Leucanthemum vulgare* Lam.

 Chrysanthemum majus (Desf.) Aschers.

➤ *Tanacetum balsamite* L.

 Chrysanthemum vulgare (L.) Bernh.

➤ *Tanacetum vulgare* L.

CHYTRANTHUS Hook.f. - Sapindaceae

 Chytranthus cauliflorus (Hutch et Dalg.) Wickens

Usage ► flavoring

Parts Used ► leaf

Distribution ► W Africa: Liberia

Burkill 5, 2000

 Chytranthus talbotii (Bak.f.) Keay

Usage ► condiment

Parts Used ► fruit pulp

Distribution ► W Africa: Gabon

Burkill 5, 2000

 Cicuta amomum Crantz

➤ *Sison amomum* L.

 Cienskowskia aethiopica Schweinf.

➤ *Siphonochilus aethiopicus* (Schweinf.) B.L. Burtt.

CINCHONA L. - Quinine - Rubiaceae

 Cinchona calisaya Wedd.

➤ *Cinchona officinalis* L.

 Cinchona cordifolia Mutis

➤ *Cinchona pubescens* Vahl.

 Cinchona glabra Ruiz

➤ *Cinchona officinalis* L.

 Cinchona grandifolia Mut.

➤ *Cinchona pubescens* Vahl 'succirubra'

 Cinchona hirsuta Ruiz et Pav.

➤ *Cinchona pubescens* Vahl

 Cinchona lancifolia Mut.

➤ *Cinchona officinalis* L.

 Cinchona ledgerana Moens et Trim.

➤ *Cinchona officinalis* L.

 Cinchona nitida Ruiz et Pav.

➤ *Cinchona officinalis* L.

 Cinchona officinalis L.

Synonyms ► *Cinchona calisaya* Wedd., *Cinchona glabra* Ruiz, *Cinchona lancifolia* Mut., *Cinchona ledgerana* Moens et Trim.; *Cinchona nitida* Ruiz et Pav.

Common Names ▶ chinabark, Peruvian bark, yellow cinchona, ledger bark, yellow bark, quinine tree; *Bolivia*: calisaya, calisaya blanca, calisaya morala; quina amarilla; *Ecuador*: cascarilla del rey, quina negra; *French*: quinquina (jaune); *German*: Calisya Chinarinde, Gelbe Chinarinde, Echte Königschinarinde; *Hindi*: kunain; *Italian*: corteccia di China; *Japanese*: aka kina no ki; *Peru*: cascarilla crespilla, cascarilla de la lomas, cascarilla verde; *Portuguese*: quina amarela; *Russian*: chinna kora, hinno; *Sanskrit*: kunayana; *Spanish*: árbol de la quina, quina, quinquina

Usage ▶ spice, flavoring (for soft drinks as a bitter, principally for tonic water)

Parts Used ▶ bark

Distribution ▶ W S America, also cultivated

Berger 1, 1949; Duke et al. 2003; Erhardt et al. 2002; Ferrão 1992; Flückiger 1883; Gorkom 1869; Hager 4, 1992; Hanelt 2001; Hermann 2001a, b; Hiller/Melzig 1999; Hobhouse 2000; Lewington 1990; Ochse et al. 1961; Plotkin 1994; Pursglove 1968; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Täufel et al. 1993; Tschirch 1892; Turora et al. 1987; Uphof 1968; Villamar et al. 1994; Westermann 1909; Wolters 1994; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

Cinchona pubescens Vahl

Synonyms ▶ *Cinchona cordifolia* Mutis; *Cinchona hirsuta* Ruiz et Pav.,

Common Names ▶ quinine, red cinchona, red Peruvian, red bark, Jesuit bark; *Chinese*: chin chi lo, jin ji le; *French*: quinquina rouge, écorce de quinquina; *German*: Fiebrerrinde, Rote Chinarinde; *Italian*: china rossa, corteccia di china; *Portuguese*: quina do Amazonas; *Spanish*: cascarilla, cinchona, corteza de quina

Usage ▶ spice, flavoring

Parts Used ▶ bark

Distribution ▶ C America, tropical S America, Costa Rica to Bolivia, India, Java, also cultivated

Duke et al. 2003; Erhardt et al. 2002; Ferrão 1992; Flückiger 1883; Hager 4, 1992; Hanelt 2001; Hermann 2001a, b; Hiller/Melzig 1999; Hohmann et al. 2001; Pschyrembel 1998; Pursglove 1968; Rättsch 1992; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Uphof 1968; Wolters 1994; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Cinchona pubescens Vahl 'succiruba'

Synonyms ▶ *Cinchona grandifolia* Mut.; *Cinchona succiruba* Pav. ex Klotzsch

Common Names ▶ red cinchona; *German*: Rote Chinarinde; *Spanish*: cascarilla amarga, cascarilla gallingo

Usage ▶ spice (flavoring)

Parts Used ▶ bark

Distribution ▶ Meso-America, C, NS and WS America, tropical S America, cultivated

Berger 1, 1949; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Lewington 1990

Cinchona succiruba Pav. ex Klotzsch

▶ *Cinchona pubescens* Vahl 'succiruba'

CINERARIA L. - Cineraria - Asteraceae (Compositae)

Cineraria lyrata L.

Common Names ▶ African marigold, wild parsley; *French*: cinéraire d'Afrique; *German*: Afrikanische Ringelblume, Wilde Petersilie; *S Africa*: geelblom, boerelusern

Usage ▶ pot-herb (locally, very sporadically)

Parts Used ▶ leaf

Distribution ▶ S Africa

Wiersema/León 1999

CINNAMODENDRON Endl. - Canellaceae

Cinnamodendron corticosum Miers

Common Names ▶ false Winter's bark, kinnamon; *German*: Falsche Winterrinde

Usage ▶ spice (rarely)

Parts Used ▶ bark

Distribution ▶ West India

Erhardt et al. 2002; Uphof 1968

C

CINNAMOMUM Schaeff. - Cinnamon - Lauraceae



Cinnamomum aromaticum Nees

Synonyms ▶ *Cinnamomum cassia* Nees ex Bl., *Laurus cassia* L., *Laurus cinnamomum* Andr.,

Common Names ▶ cassia, Chinese cinnamon, Chinese cassia, cassia vera (strictly speaking); *Chinese*: gui zhi, mo kuei, rou gui; *Dutch*: kassie; *French*: casse, canelle casse, canelle de Chine (plante), canelle fausse, canéfica, canellier de Chine; casse ligneuse; *German*: Kaneel, Kassia, Chinesische Zimtrinde, Holzkassia, Holzzimt, Kanton-Zimt, Mutterzimt, Zimtkassia; *Indonesian*: kayu manis china; *Italian*: canella cinese; *Japanese*: kashia-keihi; *Malaysian*: kayu manis; *Portuguese*: cássia; *Russian*: kitajskaja oritscha, koritschnik kitajskij; *Slovenian*: kasia; *Spanish*: canelo de la China, canelero chino, cassia lignea; *Thai*: ob cheuy; *Vietnamese*: que, may que

Usage ▶ spice; **product**: essential oil (leaves: *Folia malabathri*); chewing pan

Parts Used ▶ bark

Distribution ▶ China: Kwangsi

Berger 1, 1949; Boivert/Hubert 2000; Bournot 1968; Bozan et al. 2003; Brown 1956; Clair 1961; Craze 2002; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Jiroretz et al. 2000; Karig 1975; Kojoma et al. 2002; Lallemand et al. 2000; Landry 1985; Leung 1991; Liu/Ou 1969; Lockwood 1979; Maistre 1964; Melchior/Kastner 1974; Morris/Mackley 1999; Mors/Rizzini 1961; Norman 1991; Peter 2001; Pruthi 1976; Rosengarten 1969; Rothe/Korzmam 1997; Schröder 1991; Schultze-Motel 1986; Seaforth 1962; Seidemann 1961, 1993c; Seidemann/Siebert 1987; Shiva et al. 2002; Siewek 1990; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Turova et al. 1987; Uphof 1968; Way 1985; WHO 1990; Wijesekera 1978; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982



Cinnamomum assamicum S.C. Nath et A.

Baruah

Common Names ▶ Assam cinnamon; *German*: Assam-Zimt

Usage ▶ fragrant, preservative (rarely)

Parts Used ▶ bark, leaf

Distribution ▶ NE India

Baruah/Nath 2001



Cinnamomum bejolghata (Buch.-Ham.) Sweet

Common Names ▶ cinnamon tree; *Thai*: op choei; *Vietnamese*: qué lá trà

Usage ▶ spice, fragrant

Parts Used ▶ bark, leaf

Distribution ▶ Thailand, Vietnam

Engel/Phummai 2000; Oyen/Dung 1999



Cinnamomum burmanii (Nees) Bl.

Synonyms ▶ *Cinnamomum burmanii* (Nees et T. Nees) Nees ex Bl., *Lauris burmanii* Nees, *Laurus dulcis* Roxb.

Common Names ▶ Batavia cinnamon, cassia, Chinese cinnamon, false cinnamon, Indonesian cassia, Padang cassia, Batavia cassia, Korintje or Korinjii cassia; *French*: canelle, canelle d'Indonésie, canelle de Batavia, canelle de Padang, canelle de Timor; *German*: Chinesischer Zimt, Padang-Zimt, Fagot-Zimt, Batavia-Kassie, Holzzimt, Indonesischer Zimt, Korintji Kassie; *Indonesian*: kaya manis; *Pilipino*: kalingag, kami; *Russian*: kitajckaja koriza; *Thai*: suramarit

Usage ▶ spice, flavoring; **product** essential oil

Parts Used ▶ bark, leaf

Distribution ▶ Malaysia, Thailand

Bois 1934; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Jiroretz et al. 2000; Kojoma et al. 2002; Lallemand et al. 2000; Lindner 1951; Lück 2000; Maistre 1964; Melchior/Kastner 1974; Pruthi 1976; Sangat-Roemantyo 1990; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siewek 1990; Staesche 1972; Tainter/Grenis 1993; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982

**Cinnamomum cambodianum** Hance

Common Names ▶ tep pirou; Cambodia cinnamon; *German*: Kambodscha-Zimt

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ Cambodia

Uphof 1968

**Cinnamomum cassia** Bl.

▶ *Cinnamomum aromaticum* Nees

**Cinnamomum culilaban** (L.) J.S. Presl

▶ *Cinnamomum culilawan* (L.) Klosterm.

**Cinnamomum culilawan** (Roxb.) J.S. Presl

▶ *Cinnamomum culilawan* (L.) Klosterm.

**Cinnamomum culilawana** Bl.

Common Names ▶ Culilawan cassia; *German*: Kuliwan-Zimt, Lavang-Zimt

Usage ▶ flavoring (locally), bud, substitute for clove bud; **product**: essential oil (Culilawan oil) in cake and perfumery

Parts Used ▶ bark, bud

Distribution ▶ China, Moluccas, Amboyana

Note ▶ Substitute for clove bud (*Syzygium aromaticum* [L.] Merr et L.M. Perry).

Bois 1934; Hager 4, 1992; Hanelt 2001; Melchior/Kastner 1974; Peter 2001; Pochljobkin 1974, 1977; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003

**Cinnamomum culilawana** (L.) Klosterm.

Synonyms ▶ *Cinnamomum culilaban* (L.) J.S. Presl, *Cinnamomum culilawan* (Roxb.) J.S. Presl, *Laurus culitlawan* L.

Common Names ▶ *German*: Culilawan-Zimt, Lavang-

rinde, Cortex Caryophylloides ruber; *Indonesian*: kaya teja, kulitlawang, salakat

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ Indonesia, cultivated also in Malaysia and India

Note ▶ The bark smells of cloves, the wood bark has a fennel (*Foeniculum vulgare* Mill.) flavor and has been used as a substitute for sassafras bark (*Sassafras albidum* [Nutt.] Nees).

Berger 1, 1949; Guzman/Siemonsma 1999; Hiller/Melzig 1999; Lallemant et al. 2000; Peter 2001; Staesche 1972; Uphof 1968

**Cinnamomum deschampsii** Gamble

Common Names ▶ *Malaysian*: kayu manis

Usage ▶ spice (flavoring)

Parts Used ▶ bark

Distribution ▶ Malakka, Malaysia (Penang), cultivated in Singapore

Note ▶ Substitute for Ceylon cinnamon (*Cinnamomum zeylanicum* Bl.).

Guzman/Siemonsma 1999; Oyen/Dung 1999; Täufel et al. 1993; Teuscher 2003

**Cinnamomum eucalytoides** T. Nees

▶ *Cinnamomum iners* Reinw. ex Bl.

**Cinnamomum impressinervium** Meissner

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ Sikkim Himalayas, China

Note ▶ Substitute for, or adulant of *Cinnamom zeylanicum* Bl.

Burkill 1966; Oyen/Dung 1999

 Cinnamomum iners Reinw. ex Bl.

Synonyms ▶ *Cinnamomum eucalyptoides* T. Nees, *Cinnamomum nitidum* Bl., *Cinnamomum paraneuron* Miq.

Common Names ▶ wild cinnamon (of Japan); *German*: Wilder (japanischer) Zimt; *Malaysian*: kayu manis hutan, lelang, mēdang kēmangi, teja

Usage ▶ flavoring (locally)

Parts Used ▶ bark

Distribution ▶ SE Asia, Indonesia, Philippines, also cultivated

Burkill 1985; Hanelt 2001; Lallemand et al. 2000; Morton 1976; Peter 2001; Pruthi 1976; Schultze-Motel 1986; Teuscher 2003; Uphof 1968;

 Cinnamomum japonicum Siebold

Common Names ▶ Japanese cinnamon; *German*: japanischer Zimt

Usage ▶ spice (locally)

Parts Used ▶ bark

Distribution ▶ China, Japan

Dudtschenko et al. 1989; Liu/Ou 1969

 Cinnamomum loureirii Nees

Synonyms ▶ *Cinnamomum obtusifolium* (Roxb.) Nees var. *loureiri* Nees ex Watt

Common Names ▶ Saïgon cinnamon, Saïgoncassia, Vietnamese cassia *French*: canelle de Saïgon, canelle de Cochinchine, canelle de Viêtnam; *German*: Annamzimt, Saïgon-Zimt, Tonkin-Zimt, Vietnam-Zimt; *Spanish*: canela de Saïgón; *Thai*: op choei

Usage ▶ spice (flavoring)

Parts Used ▶ bark, flower

Distribution ▶ Indochina, Japan, China, S Vietnam, Java

Dudtschenko et al. 1989; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hoppe 1949; Hiller/Melzig 1999; Lallemand et al. 2000; Liu/Ou 1969; Maistre 1964; Melchior/Kastner 1974; Peter 2001; Pruthi 1976; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Staesche 1972; Tainter/Grenis 1993; Täufel et al. 1993; Teuscher 2003

 Cinnamomum massoia Schew.

➤ *Cryptocaria aromaticum* (Becc.) Kosterm.

 Cinnamomum micranthum (Hayata) Hayata

Common Names ▶ Taiwan cinnamon; *German*: Taiwanischer Zimt

Usage ▶ spice (locally)

Parts Used ▶ bark

Distribution ▶ Taiwan

Erhardt et al. 2002; Liu/Ou 1969

 Cinnamomum mindanaense Elmer

Common Names ▶ mindanao cinnamon; *German*: Mindanao-Zimt

Usage ▶ spice (locally)

Parts Used ▶ bark

Distribution ▶ Philippines

Note ▶ Substitute for Ceylon cinnamon (*Cinnamomum zeylanicum* Bl.).

Lawrence/Hogg 1974; Seidemann 1997b; Uphof 1968; Usher 1974

 Cinnamomum nitidum Bl.

➤ *Cinnamomum iners* Reinw. ex Bl.

 Cinnamomum obtusifolium Nees

Common Names ▶ Bengali cinnamon; *French*: canelle du Bengale; *German*: Annam-Zimt, Saïgon-Zimt

Usage ▶ spice (locally)

Parts Used ▶ bark, flower

Distribution ▶ E Himalayas, Vietnam, Myanmar, Assam

Note ▶ Substitute for Ceylon cinnamon (*Cinnamomum zeylanicum* Bl.).

Hager 4, 1992; Melchior/Kastner 1974; Peter 2001; Pruthi 1976; Schultze-Motel 1986; Seidemann 1993c; Staesche 1972; Täufel et al. 1993; Teuscher 2003

 Cinnamomum obtusifolium (Roxb.) Nees **var.**
loueiri Nees ex Watt

➤ *Cinnamomum loueirii* Nees

 Cinnamomum olivera Bailey

Common Names ▶ Australian cinnamon, black sassafras, Oliver's bark; *French*: canelle l'Australie; *German*: Australischer Zimt; *Japanese*: nikkai

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ Australia: Queensland

Note ▶ Substitute for Ceylon cinnamon (*Cinnamomum zeylanicum* Bl.)

Karig 1975; Peter 2001; Ratsch 1998; Uphof 1968

 Cinnamomum paraneuron Miq.

➤ *Cinnamomum iners* Reinw. ex Bl.

 Cinnamomum parthenoxylon Meisn.

Usage ▶ spice (locally); **product**: essential oil (bark and leaf)

Parts Used ▶ bark, leaf

Distribution ▶ N India, Bangladesh, Myanmar, Malaysia

Baruah/Nath 2000; Hanelt 2001; Uphof 1968; Usher 1974

 Cinnamomum philippinense (Merr.) C.E.
Chang

Common Names ▶ Philippine cinnamon; *French*: canelle de les Philippines; *German*: Philippinischer Zimt

Usage ▶ spice (locally)

Parts Used ▶ bark

Distribution ▶ Philippines

Lallemant et al. 2000; Melchior/Kastner 1974; Seidemann 1993; Teuscher 2003

 Cinnamomum porrectum (Roxb.) Kosterm.

Synonyms ▶ *Cinnamomum parthenoxylon* (Jack) Nees, *Laurus porrecta* Roxb.

Common Names ▶ *Chinese*: zong guan, zong hai, mai zong

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ China, Myanmar, Malaysia, in S China cultivated in the garden

Hanelt 2001; Yu et al. 1985; Zeven/Zhukovsky 1975

 Cinnamomum puberulum Ridley

Common Names ▶ *Malaysian*: teja, medang kemangi

Usage ▶ spice, e.g. to flavor curries (locally)

Parts Used ▶ bark

Distribution ▶ Malaysian Peninsula

Guzman/Siemonsma 1999; Oyen/Dung 1999

 Cinnamomum rhynchophyllum Miq.

Common Names ▶ *Indonesian*: kayu lawang, kayu salangan, modang sanggar; *Malaysian*: teja

Usage ▶ spice (locally)

Parts Used ▶ bark

Distribution ▶ Malaysia Peninsula, Sumatra, Borneo

Note ▶ The bark smells like cloves and nutmeg.

Guzman/Siemonsma 1999; Oyen/Dung 1999

 Cinnamom sintok Bl.

Synonyms ▶ *Cinnamomum camphoratum* Bl.

Common Names ▶ Java cassia; *German*: Java-Holzzimt; *Javanese*: sintok

Usage ▶ flavoring (locally)

Parts Used ▶ bark

Distribution ▶ Indonesia: Java, Sumatra

Backer/Bakhuizen van den Brink 1963; Peter 2001; Sangat-Roemantyo 1990; Uphof 1968

 Cinnamomum tamala (Buch.-Ham.) Nees et Eberm.

Common Names ► Indian cassia lignea, Indian bark, Malabathri bark; *French*: canelle d'Inde; *German*: Malabarzimt, Indischer Holzzimt; *Hindi*: tejpat; *Russian*: Malabarskaja koriiza

Usage ► spice (locally), condiment

Parts Used ► leaf, bark

Distribution ► India, Malaysia

Note ► The leaves are substitute for bay leaves (*Laurus nobilis* L.).

Arora/Pandey 1996; Bois 1934; Dalby 2000; Dastur 1954; Erhardt et al. 2002; Hager 4, 1992; Ilyas 1976; Kumar 2003; Lallemand et al. 2000; Pochljobkin 1974, 1977; Pruthi 1976; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982



 Cinnamomum verum J. Presl

► *Cinnamomum zeylanicum* Bl.

 Cinnamomum zeylanicum Bl. ■

Synonyms ► *Cinnamomum verum* J. Presl, *Laurus cinnamomum* L.

Common Names ► Cinnamon, Ceylon cinnamon, Indian cassia, Sri Lanka cinnamon, true cinnamon; *Arabic*: irfa, qurfa; *Chinese*: jou-kwei; *Dutch*: kaneel; *French*: canelle, canellier, canelle de Ceylan; *German*: Ceylon-Zimt, Echter Zimt, Kaneel, Kanehl, Seychellen-Zimt; *Hindi*: dal-chini, darcini; *Italian*: canella, cannella di Ceylon; *Malaysian*: kayu manis; *Mexico*: guiña castilla, cicanaga latyaga, guiña xtilla ticanaca; *Pilipino*: cinnamon canela; *Portuguese*: canela, caneleira em ceilão; *Russian*: zejsonskaja koriza; *Sanskrit*: durasita, tvak; *Slovenian*: škorica; *Spanish*: canela, canela de Ceilán

Usage ► spice (flavoring, (bark); **product**: essential oils (leaves)

Parts Used ► bark, leaf

Distribution ► Sri Lanka, S West Indies; widely cultivated in the Tropics: Indonesia Java, Brazil, Martinique, Jamaica, Madagascar

Berger 1, 1949; Bicking 1986; Bois 1934; Boisvert/Hubert 2000; Bournot 1968; Brown 1955; Cheers 1998; Craze 2002; Dalby 2000;



■ **Cinnamomum zeylanicum**: a flowering, b dry bark

Dastur 1954; Davidson 1999; Domrös 1973; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Ferrão 1992; Guzman/Siemonsma 1999; Hager 1992; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Jayaprakash et al. 2003; Jiroretz et al. 2000, 2001; Karig 1975; Kojoma et al. 2002; Krützfeld 2002; Lallemand et al. 2000; Lewington 1990; Liu/Ou 1969; Mallavarapu et al. 1995; Melchior/Kastner 1974; Morris Mackley 1999; Mors/Rizzini 1961; Nath et al. 1996a; Newall et al. 1996; Norman 1991; Parain 1986; Peter 2001; Pochljobkin 1974, 1977; Poole/Poole 1994; Pruthi 1976; Pschyrembel 1998; Pursglove 1968; Raina et al. 2001; Rau 1994; Rosengarten 1969; Schenck/Naundorf 1966; Schneider 1988; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Siewek 1990; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Vaupel 2002b; Villamar et al. 1994; Wijesekera 1978; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

CISSUS L. - Grape Ivy - Vitaceae

 **Cissus arborea** Forrsk.

➤ *Salvadora persica* L.

 **Cissus quadrangularis** L.

Synonyms ▶ *Vitis quadrangularis* Wall.

Common Names ▶ edible stemmed vine; *French*: vigne de Bakel, cissus de Galam, *German*: Vierkantige Klimme; *India*: vajra valli, cannalam paranta, harjora, hadsandhi

Usage ▶ condiment

Parts Used ▶ young shoot

Distribution ▶ Arabia, Ethiopia, tropical Africa, S Africa: Natal; Madagascar, Iraq, India, Sri Lanka, Philippines, Malaysian Archipelago

Note ▶ The young shoots are a curry ingredient in India and Malaysia.

Ambasta 1986; Burkill 5, 2000; Erhardt et al. 2002; v. Koenen 1996; Sharma 2003; Uphof 1968; Wealth of India 2, 1988

CITRUS L. - Lemon, Lime, Orange - Rutaceae

Davis/Albrigo 1994; Dugo/di Giacomo 2002; Klock 1998, 2001; Klock/Klock 2002; Mazza 1998; Ochse et al. 1961; Ramón-Laca 2003; Saunt 2000; Schirarend/Heilmeyer 1996; Shi et al. 2002; Steiner/Hochhausen 1952

 **Citrus amblycarpa** (Hassk.) Ochse

Synonyms ▶ *Citrus limonellus* Hassk. var. *amblycarpa* Hassk., *Citrus nobilis* Lour. var. *amblycarpa* (Hassk.) Ochse et de Vries

Common Names ▶ *Indonesian*: jeruk limau, jeruk limu, jeruk sambal

Usage ▶ juice: condiment (e.g. sambal, soto and bahmie)

leaf: substitute for the leaves of *Citrus hystrix* DC., also to perfume washing water

Parts Used ▶ juice of immature fruits; leaf

Distribution ▶ cultivated in Indonesia (Java)

Guzman/Siemonsma 1999

 **Citrus aurantiifolia** (Christm. et Panz.) Swingle

Synonyms ▶ *Citrus javanica* Bl., *Citrus lima* Lunan, *Citrus notissima* Blanco, *Limonia acidissima* Houtt., *Limonia aurantiifolia* Christm. et Panz.

Common Names ▶ Adams apple, key lime, lime, limon, Mexican lime, sour lime, Persian lime, West Indian lime; *Chinese*: suan ning mêng, limau nipis; *Dutch*: limmetje; *French*: limettier, limette acide, citron vert; *German*: Saure Limette, Limone, Limonelle; *Hindi*: kaghzi mimboo; *India*: erumichinarakam, nimma, limbe; *Indonesian*: jeruk niois; *Italian*: limette; *Javanese*: djêrook pêtjêl; *Malaysian*: limau amkian, limau kapas; *Mexico*: guela castilla, guela lima, guela xtilia; *Pilipino*: dayap; *Portuguese*: lima, limão, lima ácida; *Spanish*: lima, limero, limón ceuti; *Thai*: magrood, manao; *Vietnamese*: cam

Usage ▶ spice (peel), flavoring (juice); **product**: essential oil (peel)

Parts Used ▶ peel, juice

Distribution ▶ widely cultivated in tropical and subtropical, probable origin tropical Asia

Note ▶ The unripe peel is termed Curacao peel.

Ayensu 1978; Bärtels 1997; Bovill/Reeve 2003; Bournot 1968; Charalambous 1994; Cheers 1998; Chisholm et al. 2003; Davidson 1999; Dugo/di Giacomo 2002; Engel/Phummai 2000; Hanelt 2001; Hiller/Melzig 1999; Kumar 2001; Minh Tu et al. 2002; Pursglove 1968; Robards et al. 1997; Roth/Korzmam 1997; Schultze-Motel 1086; Seidemann 1993c; Sharma 2003; Täufel et al. 1993; Uphof 1968; Venkateshwarlu/Selvaraj 2000; Verheij/Coronel 1991; Villamar et al. 1994; Zeven/de Wet 1982

 **Citrus aurantium** L.

Synonyms ▶ *Citrus bigaradia* Loisel; *Citrus vulgaris* Risso

Common Names ▶ bigarade, bitter orange, Seville orange, orange (American) (ssp. *amara* (L.)), English: sour orange); *Arabic*: arenddj, narenddj; *Brazil (Portuguese)*: laranja da terra; *Chinese*: suan-chêng, zhishi; *Dutch*: oranjeappel; *French*: bigardier, d'orange amère; *German*: Bigarde, Bitter-orange,

Pomeranze; *India*: khatta, nebu, limu, nibu, dan-taharshana; *Italian*: arancio amaro, arancia fiori, arancia forte, meolangolo; *Japanese*: dai-dai, ka busu, kaisei to; *Korean*: kwanggyulnamu; *Portuguese*: laranjeira azêda; *Russian*: apelcin kuslyj, pomeranez; *Spanish*: naranjo agrio, naranjo amargo, toronja, flor de azahar

Usage ▶ spice, flavoring (juice); **product**: essential oil (peel): Bigarad(i) oil

Parts Used ▶ flower, peel, juice

Distribution ▶: widely cultivated in tropical and sub-tropical regions; Indochina

Bärtels 1997; Berger 1, 1949; 3, 1952; Boelens 1991; Boelens et al. 1989; Bournot 1968; Cheers 1998; Dudtschenko et al. 1989; Dugo/di Giacomo 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hoppe 1949; Kirbaslar et al. 2001; Kirbaslar/Kirbaslar 2003; Kumar 2001; Lewington 1990; Lin Zheng-kui et al. 1986; Melchior/Kastner 1974; Minh Tu et al. 2002; Mondello et al. 2003; Oyen/Dung 1999; Pschyrembel 1998; Pursglove 1968; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Ubillos 1989; Uphof 1968; Villamar et al. 1994; Wagner et al. 1975; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Citrus aurantium L. ssp. bergamia (Risso et Poit.) Wight et Arn. ex Engl.

Common Names ▶ curassao peel; *German*: Jacmalschalen, Curassaoschalen

Usage ▶ spice, flavoring

Parts Used ▶ peel of unripened fruits

Distribution ▶ cultivated in tropical regions

Hoppe 1949; Kumar 2001; Seidemann 1993c; Täufel et al. 1993; Wüstenfeld/Haeseler 1964

Citrus aurantium L. var. curassaviensis

▶ *Citrus aurantium L. (note)*

Citrus aurantium L. var. myrtifolium (Raf.) Ker-Gawl.

▶ *Citrus myrtifolia Raf.*

Citrus aurantium L. var. sinensis L.

▶ *Citrus sinensis (L.) Osbeck*

Citrus bergamia Risso et Poit.

Synonyms ▶ *Citrus aurantium L. ssp. bergamia* (Risso et Poit.) Wight et Arn. ex Engl.

Common Names ▶ bergamot, bergamot orange; *Dutch*: bergamot; *French*: bergamot(te), bergamotier; *German*: Bergamotte, Bergamot-Orange; *Indonesian*: bergamet; *Italian*: bergamotto (albero); *Portuguese*: (baranjeira) bergamota; *Russian*: bergamot (plod); *Spanish*: bergamota

Usage ▶ **product**: essential oil (bergamot oil)

Parts Used ▶ peel of ripe fruits

Distribution ▶ S Italy, cultivated in Turkey

Baser et al. 1995; Bendel 2002; Bournot 1968; Casabianca 1994; Charalambous 1994; Davidson 1999; Dudtschenko et al. 1989; Dugo/di Giacomo 2002; Erhardt et al. 2002; Hager 3, 1992; Hanelt 2001; Hiller/Melzig 1999; Huang et al. 1990; Kirbaslar et al. 2000; Kumar 2001; Lewington 1990; Mazza 1986; Mondello et al. 2003; Mosandl/Juchelka 1997; Oyen/Dung 1999; Poiana et al. 1994; Roth/Korzmam 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Spinelli 1951; Uphof 1968; Verzera et al. 2000, 2003

Citrus bigaradia Loisel

▶ *Citrus aurantium L.*

Citrus cedra Link

▶ *Citrus medica L.*

Citrus crassa Hassk.

▶ *Citrus medica L.*

Citrus deliciosa Tenore

▶ *Citrus reticulata Blanco*

 Citrus fragrans Salisb.

➤ *Citrus medica* L.

 Citrus hystrix DC.

Common Names ▶ Indian lemon, kaffir lime, leech lime, makrut lime, Mauritius papeda; *Chinese*: eabuyao; *French*: citron combara, combavas; *German*: Indisches Zitronenblatt, Kaffir-Limette, Langdorniger Orangenbaum; *Indonesian*: daoen djerok poeroet; daun jeruk purut; *Malaysian*: limau purut; *Pilipino*: amontau, cabuyau; *Russian*: lajm, limetta; *Thai*: bai ma-krut; *Vietnamese*: la chanch

Usage ▶ spice

Parts Used ▶ leaf, fruit

Distribution ▶ India, S China, Indonesia, Sumatra, Philippines, sporadically cultivated in Mediterranean region

Bendel 2002; Davidson 1999; Dugo/de Giacomo 2002; Kumar 2003; Melchior/Kastner 1974; Morris/Mackley 1999; Murakami et al. 1995; Norman 1991; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Siewek 1990; Strauß 1969; Staesche 1972; Täufel et al. 1993; Uphof 1968; Zeven/de Wet 1982

 Citrus japonica Thunb.

➤ *Fortunelle japonica* (Thunb.) Swingle

 Citrus javanica Bl.

➤ *Citrus aurantiifolia* (Christm. ex Panz.) Swingle

 Citrus junos Sieb. ex Tanaka

Common Names ▶ *Japanese*: yuzu

Usage ▶ flavoring

Parts Used ▶ fruit

Distribution ▶ cultivated in China and Japan

Wiersema/León 1999

 Citrus latifolia Tanaka

Common Names ▶ limon, Persian lime, Tahiti lime, lime, bear's lime, sour lime; *French*: limettier, limette acide, Perse limette, Mexican limette, citron vert; *German*: Breitblättige Limette, Persische Limette

Usage ▶ spice (peel), flavoring (juice) **product**: essential oil (peel)

Parts Used ▶ fruit (juice), peel

Distribution ▶ Tahiti; widely cultivated in tropical and subtropical regions: S America: Brazil, Mexiko, The Argentine; USA: Florida; Europe: Spain

Note ▶ The fruits are larger than the fruits of the Mexican or key lime (→ *Citrus aurantiifolia* (Christm. et Panz.) Swingle

Bovill/Reeve 2003; Dugo/di Giacomo 2002; Erhardt et al. 2000, 2002; Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999

 Citrus lima Lunan

➤ *Citrus aurantiifolia* (Christm. et Panz.) Swingle

 Citrus limon (L.) Burm.f.

Synonyms ▶ *Citrus limonum* Risso

Common Names ▶ lemon, limum; *Arabic*: laimun, loom; *Brazil (Portuguese)*: limão galego; *Chinese*: limung, ning mêng; *Dutch*: citroen; *French*: citron, citronnier, limonier; *German*: Zitrone, Limone; *Hindi*: jambiri, nimbu; *India*: bijapura, idalimbu; *Italian*: citreno, limone; *Japanese*: remon; *Portuguese*: limão, limoeiro azedo; *Russian*: limona; *Sanskrit*: jambira; *Spanish*: limón, limonero

Usage ▶ spice, flavoring; **product**: essential oil (peel)

Parts Used ▶ peel, fruit

Distribution ▶ widely cult in tropical and subtropical regions

Bärtels 1977; Bendel 2002; Boise 1934; Bose 1985; Bournot 1968; Braunsdorf et al. 1993; Chamblee et al. 1991; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Dugo 1994; Dugo/di Giacomo 2002; Dugo et al. 1995; Hager 3, 1992; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Ikeda et al. 1962; Juchelka 1997; Kumar 2001; Lawrence 1982; Lewington 1990; Lund/Bryan 1976; MacHale/Sheridan 1988; Melchior/Kastner 1974; Miyake et al. 1997, 1999; Mondello et al. 2003; Philipp/Isengard 1995; Pino et al. 1993; Pochljobkin 1974, 1977; Risch/Herrmann 1988; Robards et al. 1997;

Roth/Korzmann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sfikas 1994; Sharma 2003; Sheppard/Boyd 1970; Shiva et al. 2002; Staesche 1972; Staley/Vannier 1957; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Verheij/Coronel 1991; Verzera et al. 2001; Villamar et al. 1994; WHO 1990; Wiersema/León 1999; Wyk 2004; Zeven/de Wet 1982



Citrus limonellus Hassk. var. **amyblycarpa** Hassk.

➤ *Citrus amblycarpa* (Hassk.) Ochse



Citrus limonum Risso

➤ *Citrus limon* (L.) Burm.f.



Citrus madurensis Lour.

➤ *Fortunella japonica* (Thunb.) Swingle



Citrus margarita Lour.

➤ *Fortunelle margarita* (Lour.) Swingle



Citrus medica L. ■

Synonyms ▶ *Citrus cedra* Link. *Citrus crassa* Hassk, *Citrus fragrans* Salisb., *Citrus odorata* Roussel

Common Names ▶ cedrat, citron, citron peel, succade; *Arabic*: gares; *Chinese*: kou-yüan, hsiang yuan, xiang; *Dutch*: cedraat, sukade; *French*: cédrat, cédratier; citron de Medie; *German*: Zedratzitrone, Zitronat, Zitronatzitrone, Zedernfrucht; *Hindi*: bara nimbu, bijaura, turanj; *India*: gilam, mah-alunga, mahaphala, kadaranarathai; *Italian*: cedro (frutto), cedrato; *Japanese*: musan ô maru Bushukan; *Javanese*: djerool bodong; *Malaysian*: limau susu; *Mexico*: bihuii nayi xtilia, pehuii nayi castillo; *Portuguese*: cidra, cidreira; *Russian*: zitron; *Spanish*: cidra, cidro, poncil; *Thai*: som mu'

Usage ▶ spice, flavoring

Parts Used ▶ fruit peel

Distribution ▶ only cultivated in Italy, Greece, Corsica, USA (California), Brazil; possible origin in India



■ **Citrus medica**, half candied fruit

Note ▶ The etrog citron (*Citrus medica* L. var. *ethrog* Engl.) is used by Jews at the Feast of Tabernacles.

Bärtels 1997; Bendel 2002; Berger 1, 1949; Bois 1934; Bournot 1968; Camperi et al. 2002; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Dugo/di Giacomo 2002; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Kumar 2001, 2003; Melchior/Kastner 1974; Pursglove 1968; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shiva et al. 2002; Staesche 1972; Täufel et al. 1993; euscher 2003; Uphof 1968; Verheij/Coronel 1991; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982



Citrus medica L. var. **ethrog** Engl.

➤ *Citrus medica* L.



Citrus medica L. var. **sarcodactylis** (Noot.) Swingle

Synonyms ▶ *Citrus sarcodactylis* Noot.

Common Names ▶ 'Buddah's hand, finger citron; *Chinese*: fo shou kan, shu kann; *French*: main de Bouddha, sacrodactyle, cédrat digité, *German*: Gefingerte

Zitrone, Finger-Zitrone; *Indonesian*: pHat tu; *Malaysian*: jêruk tangan, limau jari

Usage ▶ spice

Parts Used ▶ fruit peel

Distribution ▶ cultivated E, S Asia

Note ▶ The citron did not reach China until the 4th Century A.D. When it did, a freak form developed in which the fruit was separated into five (or more) lobes like the fingers of the hand. The fruit was not suitable unless fresh.

Davidson 1999; Dugo/di Giacomo 2002; Erhardt et al. 2002; Hanelt 2001; Mazza 1998; Schirarend/Heilmeyer 1996; Schultze-Motel 1986

Citrus medica ssp. limonum Hook.

➤ *Citrus limon* Burm.

Citrus myrtifolia Raf.

Synonyms ▶ *Citrus aurantium* L. var. *myrtifolium* (Raf.) Ker-Gawl.

Common Names ▶ myrtle leaf orange; *French*: chinois; *German*: Duftorange, Myrtenblättrige Pomeranze; *Italian*: chinotto; *Spanish*: naranja mirtifolia

Usage ▶ flavoring

Parts Used ▶ flower, fruit peel

Distribution ▶ ?China

Facciola 1990; Klock 2001;

Citrus nobilis Lour. var. *amblycarpa* (Hassk.) Ochse et De Vries.

➤ *Citrus amblycarpa* (Hassk.) Ochse

Citrus notissima Blanco

➤ *Citrus aurantiifolia* (Christm. ex Panz.) Swingle

Citrus odorata Roussel

➤ *Citrus medica* L.

Citrus reticulata Blanco

Synonyms ▶ *Citrus deliciosa* Tenore, *Citrus tangerine* hort. ex Tan.

Common Names ▶ clementine, santara orange, Swato orange, tangerine; *Chinese*: chen pi, chü, jui-sheng-nu, kan chü; *French*: tangerine; *German*: Mandarine, Tangarine; *Hindi*: santara; *Japanese*: ponkan; *Javanese*: djerok garoet; *Pilipino*: narangita; *Portuguese*: tangerine; *Vietnamese*: may cam chia, quit, quat thuc

Usage ▶ flavoring, in candy and soft drinks; **product**: essential oil (from peel)

Parts Used ▶ peeled fruit

Distribution ▶ SE Asia, cultivated worldwide in tropical countries.

Note ▶ The tangerine fruit has a sweet, fresh quality.

Chisholm 2003; Dugo/di Giacomo 2002; Freeburg et al 1994; Hanelt 2001; Uphof 1968; Zeven de Wet 1982

Citrus sarcodactylis Noot.

➤ *Citrus medica* L. var. *sarcodactylis* (Noot.) Swingle

Citrus sinensis (L.) Osbeck

Synonyms ▶ *Citrus aurantium* L. var. *sinensis* L.

Common Names ▶ orange, blood orange, navel orange, sweet orange, Valencia orange; *Arabic*: bordguene; *Chinese*: cheng, tian-cheng; *Dutch*: zoete djerok; *French*: orange (douce), oranger doux, pomme d'orange; *German*: Apfelsine, Blutorange, Nabelorange, (süße) Orange; *Hindi*: musambi, narangi; *India*: battavinarinja, kittile, sathagudi; *Italian*: arancio dolce, orancio dolce; *Korean*: kamkyulnamu, langgyulnamu; *Mexico*: yaga naraxo; *Portuguese*: laranja doce, laranjeira; *Russian*: apel'sina (plod); *Spanish*: naranja (dulce); *Vietnamese*: cáy cam

Usage ▶ spice (peel), flavoring; **product**: essential oil (peel, flowers; neroli oil, sweet orange oil)

Parts Used ▶ fruit, peel, flower

Distribution ▶ widely cultivated in tropical and subtropical regions, probable origin SE Asia

Bärtels 1997; Bendel 2002; Bournot 1968; Camperi et al. 2002;

Cheers 1998; Dudtschenko et al. 1989; Dugo 1995; Dugo/di Giacomio 2002; Hanelt 2001; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Kumar 2001; Lewington 1990; Lund et al. 1972; Matthews 1987; Minh Tu et al. 2002; Mondello et al. 2003; Moyler/Stephens 1992; Pino et al. 1992b; Pochljobkin 1974, 1977; Pschyrembel 1998; Pursglove 1968; Roth/Korzmam 1997; Schönfelder 2001; chultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Täufel et al. 1993; Uphof 1968; Verheij/Coronel 1991; Villamar et al. 1994; Zeven/de Wet 1982

Citrus trifolia Thunb.

➤ *Poncirus trifoliata* (L.) Raf.

Citrus trifoliata L.

➤ *Poncirus trifoliata* (L.) Raf.

Citrus vulgaris Risso

➤ *Citrus aurantium* L.

CLAOXYLON A. Juss. - Euphorbiaceae

Claoxylon indicum (Reinw. ex Bl.) Hassk.

Synonyms ▶ *Claoxylon polot* Merr., *Erythrochilus indicus* Reinw. ex Bl.

Common Names ▶ *Cambodian*: chhe:tô:ch; *Indonesian*: bleketupuk, talinkup, katerbik; *Malaysian*: lampin budak, laping pudak, sitampu; *Thai*: kha ka ai, khang namphung, ngun phung khao

Usage ▶ spice (for sauces)

Parts Used ▶ young leaf

Distribution ▶ India, throughout continental SE Asia and S China, Malaysia, Indonesia

Guzman/Siemonsma 1999; Oyen/Dung 1999; Uphof 1968

Claoxylon polot Merr.

➤ *Claoxylon indicum* (Reinw. ex Bl.) Hassk.

CLAUSENA Burm. - Rutaceae

Clausena anisata Hook. ex Benth.

Synonyms ▶ *Clausena inaequalis* (DC.) Benth.

Common Names ▶ horsewood, clausena; *German*: Anis-Clausenie, Anisblätter; *Kenya*: mutasia, siunya

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ native in tropical W Africa, naturalized in Java, Philippines, Indian Ocean Islands; cultivated in Indonesia

Ayensu 1978; Gundidza et al. 1994; Gurib-Fakim/Brendler 2004; Molino 1993, 2000; Oyen/Dung 1999; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Westphal/Jansen 1989; Wiersema León 1999

Clausena anisum-olens (Blanco) Merr.

Synonyms ▶ *Clausena laxiflora* Quis et Mer.; *Clausena sanki* (Perr.) Molino; *Cookia anisumolens* Blanco

Common Names ▶ *Pilipino*: anis, kayumanis, danglais

Usage ▶ condiment, flavoring cigarettes; **product**: essential oil, substitute for anise oil

Parts Used ▶ leaf

Distribution ▶ Endemic to the Philippines and Borneo; all over the archipelago also cultivated, in China, Taiwan, Vietnam and Indonesia sporadically cultivated in gardens.

Note ▶ The essential oils are used for the preparation the Philippines drink 'Anisado'.

Hanelt 2001; Molino 1993, 1995; Oyen/Dung 1999; Schultze-Motel 1986; Uphof 1968

Clausena excavata Burm.f.

Synonyms ▶ *Clausena punctata* Wight et Arb.

Common Names ▶ pink lime-berry, Hollywood clausena; *Chinese*: shan huang pi; *Hindi*: agnijal, *Javanese*: bagal tikus, *Malaysian*: sēmeru, pokok cherek, pokok kēmantu; *Thai*: fia fan, *Vietnamese*: giòi, ti-kusan

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ India, China, lower Himalayan ranges and in NE hills, E Asia, Indochina, Malaysia

Note ▶ The leaves used like ➤ *Murraya koenigii* (L.) Spreng. leaves.

Arora/Pandey 1996; Burkill 1960; Hanelt 2001; Wealth of India 2, 1950; Wiersema/León 1999

Clausena inaequalis (DC.) Benth.

➤ *Clausena anisata* Hook. ex Benth.

Clausena indica Oliv.

Common Names ▶ Indian clausena; *German*: Indische Clausenie

Usage ▶ flavoring curries

Parts Used ▶ leaf

Distribution ▶ India: W Ghats

Arora/Pandey 1996; Wiersema/León 1999

Clausena lansium (Lour.) Skeels

Synonyms ▶ *Clausena wampi* (Blanco) Oliv.

Common Names ▶ Chinese wampee, wampi; *Chinese*: huang pi gua, wong pei, wong pa, wong poi; *French*: vampi; *German*: Clausenieblätter; *Korean*: hwangphinamu; *Malaysian*: wampee, wampi, wampoi; *Pilipino*: huampit, uampi galumpi; *Thai*: som ma fai; *Vietnamese*: hong bi

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S China, Indochina, widely cultivated in tropical and subtropical Asia: Philippines, Vietnam; Australia, Hawaii, Cuba

Note ▶ The essential oil is a substitute for anise oil. The name of the fruit is wampi or wampee.

Cheers 1998; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Uphof 1068; Verheij/Coronel 1991; Westphal/Jansen 1989; Wiersema/León 1999; Zeven/de Wet 1982

Clausena laxiflora Quis et Merr.

➤ *Clausena anisum-olens* (Blanco) Merr.

Clausena punctata Wight et Arn.

➤ *Clausena excavata* Burm.f.

Clausena sanki (Perr.) Molino

➤ *Clausena anisum-olens* (Blanco) Merr.

Clausena wampi (Blanco) Oliv.

➤ *Clausena lansium* (Lour.) Skeels

Claytonia perfoliata Donn

➤ *Montia perfoliata* (Donn) Howell

CLEOME L. - Spider Flower - Capparaceae

Cleome gynandra L.

Synonyms ▶ *Cleome pentaphylla* (L.) DC., *Gynandropsis gynandra* (L.) Briq., *Gynandropis pentaphylla* (L.) DC.

Common Names ▶ African mustard, African spider flower, bastard mustard, cat's whiskers, kaffir caggage, spider herb, spider wisp; *Arabic*: abu qaru; *Chinese*: bai hua cai; *French*: feuilles caya, mozambé, mouzambe; *German*: Afrikanische Spinnenpflanze, Bastardsenf, Katzenschnurbart, Massarubee, Senfkaper; *India*: hulul, hurhur, karaila; *Japanese*: fû-chô-sô; *Malaysian*: manam; *Pilipino*: apuy-apuyan, balabalanoyan, tantandok, kulaya; *Portuguese*: mussambé cor de rosa, mussambé de cinco folhas; *Spanish*: caya mouzambi, volatin, volantin-cillo; *Thai*: phak sian; *West Indies*: massarubee

Usage ▶ spice, condiment (in Gabun), pot-herb (in India)

Parts Used ▶ leaf, seed, seed capsule

Distribution ▶ tropical Africa, tropical Asia: India, China, Indochina; native in tropical America

Note ▶ Ground as mustard.

Arora/Pandey 1996; Burkill 1, 1985; Davidson 1999; Erhardt et al. 2000, 2002; v. Koenen 1996; Oome/Grubben 1978; Schultze-Motel 1986; Seidemann 1993c; Siemonsma/Piluek 1993; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

Cleome monophylla L.

Common Names ▶ single-leave cleome, spindlepod; *German*: Einblättrige Spinnenpflanze

Usage ▶ pot-herb (by the Santals)

Parts Used ▶ leaf

Distribution ▶ W Africa: Senegal, Nigeria; tropical Asia, especially India

Burkill 1, 1985; Irvine 1952; Uphof 1968

Cleome pentaphylla (L.) DC.

▶ *Cleome gynandra L.*

CLINOPODIUM L. - Calamint - Lamiaceae (Labiatae)

Clinopodium vulgare L. ssp. vulgare

Synonyms ▶ *Calamintha clinopodium* Benth., *Melissa clinopodium* Benth., *Melissa vulgare* Trev.

Common Names ▶ cushion calamint, dog mint, basil weed, wild basil; *French*: calamint commun, clinopode; *German*: Wilder Basilikum, Wilde Melisse, Wirbeldost, Gewöhnliche Clinopode

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ Europe, Caucasus, W, E Siberia

Erhardt et al. 2002; Small 1997; Uphof 1968

CNICUS L. - Blessed Thistle - Asteraceae (Compositae)

Cnicus benedictus L.

Synonyms ▶ *Centaurea benedicta* (L.) L.

Common Names ▶ blessed thistle, holy thistle; *French*: chardon bénit; *German*: Benediktenkraut, Bitterdistel, Kardobenediktenkraut; *Italian*: cardo santo, cnicus; *Portuguese*: cardo bento; *Russian*: benedikt aptetschnyj, kardobenedikt; boltschez blagocloblennyj; *Spanish*: cardo bendito, cardo santo

Usage ▶ spice, flavoring for liqueur and spirits

Parts Used ▶ herb

Distribution ▶ S and SW Europe, Caucasus, Iran, C, W Asia, Afghanistan, S Russia, Romania, N Africa

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 3, 1952; Berger 4, 1954; Coiciu/Racz (no year); Dudtschenko et al. 1989; Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Newall et al. 1996; Pschyrembel 1998; Schneider/Lachner 1987; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Ulubelen/Berkan 1977; Uphof 1968; Vanhaelen-Fastré 1973, 1974; Vanhaelen-Fastré/Vanhaelen 1974; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

CNIDIUM Cuss. ex Juss. - Apiaceae (Umbelliferae)

Cnidium confertum Moench.

▶ *Cnidium monnieri* (L.) Cuss. ex Juss.

Cnidium monnieri (L.) Cuss. ex Juss.

Synonyms ▶ *Athamantha chinensis* Lour., *Cnidium confertum* Moench., *Selinum monnieri* L.

Common Names ▶ *Chinese*: she ch'uang tzu, giêng sâng, ta hui hsiang ts'ao, xà sâng; *French*: cnide, ivêche de Chine; *German*: Monnier's Brenndolde; *Japanese*: oka-zeri

Usage ▶ spice, condiment (in Vietnam)

Parts Used ▶ fruit

Distribution ▶ E Asia: E Siberia, Mongolia, Korea; in S

Europe the plant grows wild; cultivated in the former Soviet Union, China, N Vietnam and Laos

Hanelt 2001; Schultze-Motel 1986; Uphof 1968

COCCINIA Wight et Arn. - Cucurbitaceae

Coccinia cordifolia Cogn.

Synonyms ► *Coccinia grandis* (L.) Voigt, *Coccinia indica* Wight et Arn.

Common Names ► ivy gourd; *Chinese*: hong gua; *German*: Indische Scharlachranke; *Hindi*: kundri, telacucha; *Malaysian*: kabare kindi, pepasan; *Thai*: tam lung;

Usage ► pot-herb (pensinsular India)

Parts Used ► tender shoots

Distribution ► tropical Asia, tropical Africa, Australia, native in tropical America

Arora/Pandey 1996; Hanelt 2001; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

Coccinia grandis (L.) Voigt

► *Coccinia cordifolia* Cogn.

Coccinia indica Wight et Arn.

► *Coccinia cordifolia* Cogn.

COCHLEARIA L. - Scurvygrass - Brassicaceae (Cruciferae)

Cochlearia armoracia Lam.

► *Armoracia rusticana* Gaertn. et B. Mey. et Scherb.

Cochlearia danica L.

Common Names ► Danish scurvy grass; *German*: Dänisches Löffelkraut

Usage ► pot-herb

Parts Used ► fresh leaf

Distribution ► Europe, especially Iberian coasts

Erhardt et al. 2001; Small 1997

Cochlearia officinalis L.

Common Names ► (common) scurvy grass, scorbutic grass, spoonwort; *Brazil (Portuguese)*: cochleária; *French*: cochlétaire, cranson, herbe à la cuiller, herbe aux cuillers, herbe aux scorbut, raifort officinal; *German*: Bitterkresse, Echtes Löffelkraut, Löffelkresse, Scharbockskraut, Skorbutkraut; *Italian*: coclearia, erba cocchiara; *Russian*: gor'kij kress, loschetschnik, warucha, morskoj calat; *Spanish*: coclearia, hierba de las cucharas

Usage ► pot-herb

Parts Used ► fresh leaf

Distribution ► Europe, Siberia, Kamchatka, N Japan, sporadically cultivated

Aichele/Schwegler 3, 1995; Berger 4, 1954; Bilgri/Adam 2000; Cheers 1998; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Pochl-jobkin 1974, 1977; Pruthi 1976; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Vanhaelen-Fastre 1973; Zeven/de Wet 1982

Cochlearia wasabi Sieb.

► *Wasabia japonica* (Miq.) Matsum.

CODIAEUM A. Juss. - Croton - Euphorbiaceae

Codiaeum variegatum (L.) Bl.

Synonyms ► *Croton variegatum* L.

Common Names ► Bombay laurel; *German*: Indischer Lorbeer, Indischer Wunderstrauch; *Japanese*: hen-yô-boku; *Malaysian*: puding mas; *Thai*: kohson

Usage ▶ spice

Parts Used ▶ young leaf

Distribution ▶ Moluccas, India, also cultivated in the tropics

Note ▶ The plant contains toxic and allergy-producing compounds (Phorbolesters?).

Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Storrs 1997; Teuscher 2003; Wealth of India 2, 1950

COELOLOCARYON Warb. - Myristicaceae

 **Coelocaryon sphaerocarpum** Fouilloy

Common Names ▶ Wild nutmeg; *German*: Wilder Muskat

Usage ▶ substitute for nutmeg (locally)

Parts Used ▶ seed, aril

Distribution ▶ Africa: Cameroon

Note ▶ The arils and seeds have a slightly spicy fragrance.

Burkill 4, 1997; Neuwinger 1999

 **Coleus amboinicus** Lour.

➤ *Plectranthus amboinicus* (Lour.) Spreng.

 **Coleus aromaticus** Benth.

➤ *Plectranthus amboinicus* (Lour.) Spreng.

 **Coleus barbartus** (Andr.) Benth.

➤ *Plectranthus barbartus* Andr.

COLOCASIA Schott - Taro - Araceae

 **Colocasia gigantea** (Blume) Hook.

Synonyms ▶ *Colocasia indica* auct. non (Lour.) Kunth; *Leucocasia gigantea* (Blume ex Hassk.) Schott

Common Names ▶ great dasheen, great taro; *German*: Großer Taro; *Hindi*: talas padang; *Thai*: khuun

Usage ▶ condiment

Parts Used ▶ fruit

Distribution ▶ India, Indochina, Malaysian Archipelago

Burkill 1966; Erhardt et al. 2000, 2002; Hanelt 2001; Oyen/Dung 1999; Wiersema/León 1999

 **Colocasia indica** auct. non (Lour.) Kunth

➤ *Colocasia gigantea* (Blume) Hook

COLURIA R. Br. - Rosaceae

 **Coluria geoides** (Pall.) Ledeb.

Synonyms ▶ *Coluria potentilloides* R. Br.; *Geum laxman-ni* Gaertn, *Geum potentilloides* Ait.

Common Names ▶ Siberian avens, clove root, clove oil plant; *German*: Sibirische Nelkenwurzel; *Russian*: koljuriya gravilatovidnaja

Usage ▶ spice, condiment for alcoholic beverages; **product**: essential oil

Parts Used ▶ root

Distribution ▶ Altai mountains: W, E Siberia, Mongolia, cultivated in Russia and Ukraine

Note ▶ The content of the essential oil is up to 90% Eugenol.

Dudtschenko et al. 1989; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c

 **Coluria potentilloides** R. Br.

➤ *Coluria geoides* (Pall.) Ledeb.

COMBRETUM Loefl. - Combretaceae

Combretum racemosum F. Beauv.

Common Names ▶ *Congo*: usonsumbi; *German*: Traubiger Langfaden

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Africa: Congo

Ayensu 1978; Terra 1966

COMMIPHORA Jacq. - Myrrh - Burseraceae

Commiphora abyssinica Engl.

Common Names ▶ Arabian myrrh; *German*: Arabische Myrrhe, Fadhi-Myrrhe, Weihrauch

Usage ▶ spice, flavoring, joss drug

Parts Used ▶ gummi resin

Distribution ▶ N Ethiopia, S Arabia

Erhardt 2002; Hepper 1992; Hoppe 1949; Lohs/Martinez 1987; Seidemann 1993c; Uphof 1968; Usher 1974; Wüstenfeld/Haensel 1964

Commiphora molmol (Engl.) Engl.

▶ *Commiphora myrrha* (Nees) Engl. var. *molmol* Engl.

Commiphora mukul (Hook ex Stokes) Engl.

▶ *Commiphora myrrha* (Nees) Engl. var. *molmol* Engl.

Commiphora myrrha (Nees) Engl. var. *molmol* Engl.

Synonyms ▶ *Commiphora molmol* (Engl.) Engl., *Commiphora mukul* (Hook ex Stokes) Engl.

Common Names ▶ African myrrh, Somali myrrh, common myrrh, herabol myrrh, myrrh, *Arabic*:

myrrh; *Chinese*: mo yao, mu yao; *French*: myrrhe; *German*: Echte Myrrhe, Somalia-Myrrhe, Herabol-Myrrhe, Weihrauch; *Italian*: mirra; *Spanish*: mirra

Usage ▶ spice, flavoring, joss drug

Parts Used ▶ gummi resin

Distribution ▶ Somalia, Arabia,

Duke et al. 2003; Erhardt et al. 2002; Hepper 1992; Hoppe 1949; Lohs/Martinez 1987; Morteza-Semnani/Saeedi 2003; Peters 1927; Pschyrembel 1998; Qédan 1974; Seidemann 1993c; Täufel et al. 1993; Wüstenfeld/Haensel 1964; Wyk et al. 2004

Commiphora opobalsamum (L.) Engl.

Synonyms ▶ *Balsamodendron gileadense* Kunth.

Common Names ▶ balm of Gilead, balsam tree, Mecca myrrh; *French*: balsamier de la Mecque; *German*: Balsammyrrhe, Mekka-Myrrhe, Süße Myrrhe, Opoponax-Harz; *Italian*: balsamo della Mecca; *Turkish*: balsam Makkah

Usage ▶ flavoring, joss drug

Parts Used ▶ gummi resin

Distribution ▶ Sudan, Ethiopia, Somalia, Arabia

Note ▶ Formerly (11th–17th Century) cultivated in Egypt and Palestine

Erhardt et al. 2002; Hanelt 2001; Hoppe 1949; Peters 1927; Qédan 1974; Schultze-Motel 1986; Uphof 1968; Usher 1974; Zeven/de Wet 1982

CONVOLVULUS L. - Bindeweed - Convolvulaceae

Convolvulus dissectus Jacq.

▶ *Merremia dissecta* (Jacq.) Hall.

Convolvulus scoparius L.

Common Names ▶ Canary convolvulus; *German*: Kanarische (Besen-)Winde

Usage ▶ spice (flavoring); **product**: essential oil

Parts Used ▶ whole plant

Distribution ▶ Canary Islands (Teneriffe)

Note ▶ Often used as seasoning for olive oil.

Erhardt et al. 2002; Hoppe 1949; Oyen/Dung 1999

C

 **Conyza riparia** DC.

➤ *Blumea chinensis* DC.

 **Cookia anisum-olens** Blanco

➤ *Clausena anisum-olens* (Blanco) Merr.

CORDYLINE Comm. ex R. Br. - Cabbage Tree - Dracaenaceae (Agavaceae)

 **Cordyline fruticosa** (L.) A. Chev.

➤ *Cordyline terminalis* (L.) Kunth

 **Cordyline terminalis** (L.) Kunth

Synonyms ▶ *Cordyline fruticosa* (L.) A. Chev.

Common Names ▶ good luck plant, Chinese fire leaf, palm lily, Hawaiian good luck plant, tree of kings; *Brazil (Portuguese)*: croton; *Chinese*: ya zhu na; *Dutch*: limiestruik; *German*: Endständige Keulenlilie, Endständige Kolbenlilie; *Hawaiian*: ki; *Malaysian*: andong, daun juang, juang, jenjuang, senjuang; *Pilipino*: tungkadi pari; *Tahiti*: auti; *Thai*: maak phuu, maak mia

Usage ▶ pot-herb, flavoring (of rice)

Parts Used ▶ young shoot

Distribution ▶ Malaysia. Archipelago, N Guinea, India, Indonesia, Oceania, NE Australia, New Zealand, Polynesia, Hawaii

Note ▶ During the 17th and early 18th Century, roots were fermented and distilled to produce spirits.

Barrau 1961; Burkill 3, 1995; Davidson 1999; Engler/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Uphof 1968; Zeven/de Wet 1982

CORIANDRUM L. – Coriander - Apiaceae (Umbelliferae)

 **Coriandrum globosum** Salisb.

➤ *Coriandrum sativum* L.

 **Coriandrum majus** Gouan

➤ *Coriandrum sativum* L.

 **Coriandrum sativum** L. ■

Synonyms ▶ *Coriandrum majus* Gouan; *Coriandrum globosum* Salisb.

Common Names ▶ *Fruit*: coriander, collender; *Arabic*: kuzbara, tabel; *Chinese*: yuen sai, hsing sui, hu sui; *Dutch*: koriander; *French*: coriandre, punaise mâle; *German*: Koriander, Schwindelkorn, Stinkdill, Wanzendill, Wanzenkümmel; *Hindi*: dhania, dhanya; *India*: leela dhana; *Indonesian*: ketumbar; *Italian*: coriandro, coriandolo; *Japanese*: koendroro, kûshibâ; *Javanese*: tumbar; *Korean*: kosu; *Malaysian*: kjintan, ketumbar, penjilang, wansui; *Portuguese*: coentro; *Russian*: koriandr, kisch-nez; *Sanskrit*: dhanyaka; *Slovenian*: koriander; *Spanish*: coriandro, cilandrio, cilantro, culantro; *Thai*: phakchi, phakhom, phakhom-noi; *Turkish*: kişniş; *Vietnamese*: ngo;

Leaf: Chinese parsley, Mexican parsley; *French*: persil arabe; *German*: Korianderblätter, Cilantro; *India*: leela dhana; *Indonesian*: ketumbar, daun ketumbar; *Malaysian*: ketumbar, daun ketumbar; *Pilipino*: unsuy; *Russian*: kinsa, koriandr, kisch-nez, koljandra, kindsi klopownik; *Sanskrit*: chatra, dhanyaka; *Spanish*: cilantro, culantro; *Thai*: bai pak, phak chee

Usage ▶ spice, pot-herb (leaves); **product**: essential oil (Coriander oil)

Parts Used ▶ fruit, leaf

Distribution ▶ S Europe, native; C, S America (Mexico), cultivated in Egypt, Morocco, France, Turkey, Hungary, Germany, Italy, Ukraine, China, India, Iran, USA

Note ▶ Wild unknown, but it has widely escaped cultivation and naturalization in S Europe and else-



■ **Coriandrum sativum**, flowering

where. In Germany the fruits used with anise, fennel and caraway fruits are sold as “bread spice”. In Thailand the roots (raak pak chee) are used similarly to *Petroselinum* roots.

Ahmed et al. 2001; Aichele/Schwegler 3, 1995; Arganosa et al. 1998; Bärtels 1997; Berger 3, 1952; Bois 1934; Boisvert/Hubert 2000; Bournot 1968; Bremness 2001; Burkill 5, 2000; Carruba et al. 2002; Chunhui Deng et al. 2003; Clair 1961; Coiciu/racz (no year); Coleman/Lawrence 1992; Cortes-Eslava et al. 2001; Craze 2002; Dalby 2000; Davidson 1999; Deng et al. 2003; Diederichsen 1996; Diederichsen/Hammer 1994; Dudtschenko et al. 1989; Fan et al. 2003; Farell 1985; Frank et al. 1995; Gil et al. 1999, 2002; Gupta et al. 1991; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hepper 1992; Herklots 1972; Hiller/Melzig 1999; Hohmann et al. 2001; Hondelmann 2002; Hoppe 1949; Illes et al. 2000; Jansen 1981; Kallio/Kerrola 1992; Kerrola/Kallio 1992; Ksandopulo et al. 1995; Lenardis et al. 2000; Leung 1991; Lewington 1990; Lück 2000; Mac-Leod/Islam 1976; Mazza 2002; Melchior/Kastner 1974; Mini-ja/Thoppil 2001; Misharina 2001; Morris/Mackley 1999; Norman 1991; Oliver 2003; Pande et al. 2000; Perineau et al. 1991; Pino et al. 1993a; Pochljobkin 1974, 1977; Potter 1996; Potter/Fagerson 1990; Pruthi 1976; Pschyrembel 1998; Ramadan/Mörsel 2002c; Rosengarten 1969; Roth/Korzmann 1997; Schönfelder 2001; Schratz/Quadry 1996; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shankarachary/Natarajan 1971;

Sharma 2003; Siewek 1990; Small 1997; Staesche 1972; Stoyanova et al. 2002; Taniguchi et al. 1996; Täufel et al. 1993; Teuscher 2003; Tindall 1983; Tainter/Grenis 1993; Tucker 1986; Ubillos 1989; Uphof 1968; Villamar et al. 1994; Wyk et al. 2004; Zeven/de Wet 1982



Coriandrum sativum L. var. *microcephalum*

Common Names ▶ Russian coriander, wild coriander;
German: Russischer Koriander, Kleinköpfiger Koriander; *Russian*: jantar, coriandr

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ S Russia, the Ukraine

Heeger 1956



Coridothymus capitatus (L.) Rchb.

▶ *Thymus capitatus* (L.) Hoffm. et Link



Cortinellus shiitake P. Henn.

▶ *Lentinus edodes* (Berk.) Sing.



Cosmos atrosanguineus (Hook.) Voss.

Common Names ▶ black cosmos, chocolate cosmos;
German: Schokoladenblume; Schwarze Kosmee, Schwarzes Schmuckkörbchen

Usage ▶ flavoring (rarely)

Parts Used ▶ flower

Distribution ▶ Mexico, also cultivated

Note ▶ On warm days, the plant has a chocolate fragrance. In Europe frequently cultivated as an ornamental plant.

Cheers 1998; Erhardt et al. 2002; Wiersema/León 1999

COSMOS Cav. - Cosmos, Mexican Aster - Asteraceae (Compositae)

Cosmos sulphureus Cav.

Common Names ▶ orange cosmos, yellow cosmos; *German*: Schwefelgelbes Schmuckkörbchen, Gelbe Kosmee; *Indonesian*: kenikir; *Japanese*: kibana kosumosu; *Mexico*: xochipelli; *Russian*: kosmos tschelty

Usage ▶ spice; **product**: essential oil

Parts Used ▶ plant

Distribution ▶ C and N Mexico, Meso-America, cultivated and native elsewhere in the Tropics

Note ▶ In Indonesia a strong aromatic plant.

Cheers 1998; Schultze-Motel 1986; Wiersema/León 1999

COSTUS L. - Costaceae (Zingiberaceae)

Costus afer Ker-Gawl.

Synonyms ▶ *Costus pterometra* K. Schum.

Common Names ▶ ginger lily, spiral ginger; *Congo*: moussanga-voulou, mussanga-vulu; *German*: Ingwerlilie, Spiralingwer

Usage ▶ spice (rarely), flavoring

Parts Used ▶ rhizom

Distribution ▶ E, W and W, C tropical Africa

Cheers 1998; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Schultze-Motel 1986; Uphof 1968

Costus pterometra K. Schum.

➤ *Costus afer* Ker-Gawl.

Costus speciosus (J.G. König) Sm. ■

Common Names ▶ cane reed, crape ginger, Malaysian ginger, white costas; *Chinese*: zhang liu tou; *German*: Prächtige Kostwurz, Malayischer Ingwer; *Hindi*: keu; *Indonesian*: pacing; *Javanese*: statjing; *Malaysian*: setawar, tawar tawar, tebu; *Sanskrit*: ke-mika; *Thai*: kushta, ueang phet maa; *Vietnamese*: cat loi, cây cu chóc, cú chóc, mia do, se vona

Usage ▶ spice, like ginger



■ **Costus speciosus, flowering**

Parts Used ▶ rhizom

Distribution ▶ Himalayas, India, Sri Lanka, Vietnam, Malaysia, New Guinea; in SE Asia and India also cultivated

Chauhan 1999; Cheers 1998; Duke et al. 2003; Engel/Phummai 2000; Ehrhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Kottegoda 1994; Kumar 2001, 2003; Küster 1987; Larsen et al. 1999; Ogle et al. 2003; Rättsch/Müller-Ebeling 2003; Santapau 1951; Schultze-Motel 1986; Seidemann 1998/2000; Sharma 2003; WHO 1990; Wong 1999

Costus zerumbet Pers.

➤ *Alpinia zerumbet* (Pers.) B.L. Burtt et R.M. Sm.

COTULA L. - Buttonweed - Asteraceae (Compositae)

Cotula cinerea Del.

Common Names ▶ ash buttons, ashy cotula; *French*: cotule à gris cendre; *German*: Aschgraue Laugenblume
Usage ▶ condiment (from the Tuareg)
Parts Used ▶ herb
Distribution ▶ W Africa: Mali

Burkill 1, 1985

COULA Baill. - Oleaceae

Coula edulis Baill.

Common Names ▶ Gaboon nut; *Congo*: kumumu; *German*: Gabunnuss
Usage ▶ condiment
Parts Used ▶ fermented seeds
Distribution ▶ tropical Africa

Mabberly 1997; Uphof 1968

Coumarouna odorata Aubl.

▶ *Dipteryx odorata* (Aubl.) Willd.

COURBONIA Brongn. - Capparidaceae

Courbonia virgata Brongn.

Usage ▶ spice
Parts Used ▶ plant ash from stems and leaves
Distribution ▶ tropical Africa

Uphof 1968

CRAMBE L. - Kale - Brassicaceae (Cruciferae)

Crambe arborea Webb. ex Christ

Common Names ▶ *German*: Baumförmiger Meerkohl
Usage ▶ spice, rarely in the Canaries
Parts Used ▶ leaf
Distribution ▶ Canary Islands

Bramwell 1997

Crambe cordata Willd.

▶ *Crambe cordifolia* Steven

Crambe cordifolia Steven

Synonyms ▶ *Crambe cordata* Willd.
Common Names ▶ *German*: Herzblättriger Meerkohl;
Russian: katran serdcelistnyj
Usage ▶ pot-herb (in India)
Parts Used ▶ young leaf
Distribution ▶ NW Himalayas (India), endemic of the N
Margarin of the Caucasus

Arora/Pandey 1996; Erhardt et al. 2000, 2002; Hanelt 2001;
Schultze-Motel 1986; Zeven/de Wet 1982

CRASSOCEPHALUM Moench - Asteraceae (Compositae)

Crassocephalum rubens (Juss.) S. Moore

Common Names ▶ *Sierra Leone*: kikpoi
Usage ▶ pot-herb (for sauces and soups)
Parts Used ▶ young plants
Distribution ▶ W Africa: Ghana, Liberia, Nigera, Sierra
Leone

Burkill 1, 1985

CRATAEVA L. - Capparaceae

C

Crataeva adansonii DC.

Synonyms ▶ *Crataeva religiosa* auct. non G. Forst.

Common Names ▶ temple plant; *German*: Tempelpflanze

Usage ▶ spice, pot-herb

Parts Used ▶ leaf

Distribution ▶ tropical Africa: Ghana, Mali, Niger, Upper Volta; China, E Asia, India, Indochina, Malaysia, cultivated elsewhere

Burkill 1, 1985; Chopra et al. 1956; Erhardt et al. 2002; Hanelt 2001

Crataeva marmalos L.

➤ *Aegle marmalos* (L.) Corrêa ex Roxb.

Crataeva religiosa G. Forst.

Synonyms ▶ *Crataeva tapia* Burm.

Common Names ▶ sacred garlic pear, sacred barma, temple tree; *German*: Spinnenbaum, Tempelbaum; *Hindi*: barna, baruna; *India*: barna bidasi, tikasag, titka sak, varuna; *Laos*: kunz; *Sanskrit*: varuna; *Thai*: kum, kum bok

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ E Asia, India, Indochina, Malaysia, Australia, cultivated in India, S China, S Africa, SE Asia

Note ▶ The fruit has a garlic taste.

Cheers 1998; Chopra et al 1956; Dhar/Dhar 2000; Erhardt et al. 2002; Hanelt 2001; Lorenzi 1998; Mansfeld 1962; Schultze-Motel 1986; Seidemann 1993c

Crataeva religiosa Ainslie

➤ *Aegle marmelos* (L.) Corrêa et Roxb.

Crataeva religiosa auct. non G. Forst.

➤ *Crataeva adansonii* DC.

Crataeva tapia Burm.

➤ *Crataeva religiosa* G. Forst.

Crataeva tapia L.

Common Names ▶ tapia fruit, payagua; *Brazil (Portuguese)*: cabaceira, pau-d'alho, tapiá, trapiá; *German*: Knoblauchbirne, Naranjille, Payagua, Tapiafrucht

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ tropical America

Note ▶ The fruit has a garlic taste.

Chopra et al. 1956; Hanelt 2001; Lorenzi 1992; Lück 2004; Mansfeld 1962; Mors et al. 2000; Seidemann 1993c; Siemonsma/Piluek 1993; Villamara et al. 1994

CRITHMUM L. - Shampire - Apiaceae (Umbelliferae)

Crithmum maritimum L.

Common Names ▶ sea fennel, Peter's cress, rock samphire, (sea) samphire; *Arabic*: shanar bahariya; *Dutch*: zeevenkel; *French*: bacile, fenouil marin, fenouil de mer, herbe de Saint-Pierre, pierre pierres; *German*: Seefenchel, Meerfenchel, Wasserfenchel; *Italian*: baccici, critmo, erba San Pietro, finocchio marino; *Portuguese*: funcho do mar, funcho marino; *Russian*: serpnik, kritmum morskoy; *Spanish*: hinojo marino

Usage ▶ pot-herb (e.g. USA)

Parts Used ▶ fresh leaves, very occasionally the fruit

Distribution ▶ Europe: Iberia, Madeira, Greece, France, Krim, Turkey, Caucasus, W Asia, N Africa, Canaria Islands, native USA

Note ▶ The leaves have a bitter-salty taste.



■ *Crataeva tapia*, fruits

Bärtels 1997; Baser et al. 2000; Bois 1934; Davidson 1999; Dudtschenko et al. 1989; Ehrhardt et al. 2002; Famini et al. 1999; Franke 1982; Lück 2004; Katsouri et al. 2001; Özcan et al. 2001; Schultze-Motel 1986; Schwenck/Naundorf 1966; Seidemann 1993c; Senatore/de Feo 1994; Täufel et al. 1993; Tucker 1986; Uphof 1968; Usher 1974; Zeven/de Wet 1982

CROCOSMIA Planch. - Montbretia, Tritonia - Iridaceae

Crocasmia aurea (Pappe ex Hook.) Planch.

Synonyms ▶ *Tritonia aurea* (Hook.) Planch.

Common Names ▶ golden monbretia, tritonia; *German*: Crocus-Tritonie, Goldmontbretie, Kapsafran

Usage ▶ spice, sporadic substitute for saffron.

Parts Used ▶ flower

Distribution ▶ E Africa, S Africa: Cap region, Natal

Note ▶ This plant is frequently collected with

Batten/Bokelmann 1966; Berger 1, 1949; Burkill 2, 1994; Cheers 1998; Ehrhardt et al. 2002; Fenwick 2003; Joffe 1993; Schenck/Naun-

dorf 1966; Seidemann 1993c, 2003; Staesche 1972; Teuscher 2003; Uphof 1968; de Vos 1984

Crocasmia x crocosmiiflora (Burbridge et Dean) N.E. Br. ■

Synonyms ▶ *Crocasmia aurea* x *Crocasmia pottsii*, *Tritonia x crocosmiiflora* (Lemoine ex E. Morr.) N.E Br.

Common Names ▶ cape saffron, crocus tritonia, garden montbretia; *German*: Garten-Montbretie, Fackellilie, Kapsafran

Usage ▶ spice, sporadic alternative for saffron

Parts Used ▶ flower

Distribution ▶ only cultivated

Note ▶ The hybrid originated 1880 in France.

Cheers 1998; Batten/Bokelmann 1966; Erhardt et al. 2002; Fenwick 2003; Seidemann 1993c, 2003; de Vos 1984

Crocoxylon croceum (Thun.) N. Robinson

▶ *Cassine crocea* (Thun.) Kuntze

CROCUS L. - Crocus - Iridaceae

Crocus biflorus Mill.

Common Names ▶ Scotch crocus; *German*: Frühlings-Krokus

Usage ▶ falsification of saffron (sporadically)

Parts Used ▶ stigma and rest of flowers

Distribution ▶ Europe, Russia, Turkey, Caucasus, N Iran, N Iraq

Erhardt et al. 2002; Hepper 1992; Melchior/Kastner 1974; Seidemann/Siebert 1987

Crocus cartwrightianus Herb.

Common Names ▶ Cartwright saffron, wild saffron; *German*: Cartwright-Safran

Usage ▶ spice (rarely)



■ **Crocosmia x crocosmiflora**, flowering

Parts Used ► stigma

Distribution ► Mediterranean Region: Greece

Hepper 1992; Negbi 1999; Small 1997

Crocus haussknechtii Boiss. et Reut. ex Boiss.

Common Names ► Hausknecht saffron, wild saffron; *German*: Hausknecht-Safran

Usage ► spice, instead of saffron

Parts Used ► stigma

Distribution ► Iran (Hamedan, Kermanshah, Fars provinces): dry fields and rocky hillsides of W and S areas

Radjabian et al. 2001

Crocus officinalis Martyn.

► *Crocus sativus* L.

Crocus sativus L.

Synonyms ► *Crocus officinalis* Martyn.

Common Names ► saffron, Spanish saffron; *Arabic*: asa-far, krukku, sa'afaran; zaafaran, za'feran; *Chinese*: fan hung hua, zan hunh hua; *Dutch*: saffraan; *French*: saf(f)ran, crocus; *German*: Safran, Echter Safran; *Hindi*: kesar; *Indonesian*: kunyit kering; *Italian*: zafferano, zafferano domestica, zaffrone, gaiallone; *Japanese*: safuran; *Korean*: saphuran; *Malaysian*: safaran; *Portuguese*: açafrao; *Russian*: shafran, shafran posewnoj; *Sanskrit*: kunkuma; *Slovenian*: šafran; *Spanish*: azafrán; *Thai*: ya faran; *Turkish*: safran, za'feran; *Vietnamese*: nghe

Usage ► spice, flavoring and coloring (rice, sauces); dye stuff

Parts Used ► stigma

Distribution ► Mediterranean region (Spain, France, Switzerland), Israel cultivated, N India, Brazil, and New Zealand only cultivated

Note ► Frequently adulterated. Trade sorts: 'Coupé' (1. quality with 5% flower rests), 'Mancha' (rest of 5% flowers + 10–15% styles), 'Rio' (rest of 10% flowers + 20–25% styles), 'Sierra' (rest of 15% flowers + 25–35% styles), 'Molido': pulverized product of all sorts.

Alonso et al. 1996, 1998, 2001, 2003; Anon. 1999; Bärtels 1997; Basker/Negbi 1983, 1985; Berger 1, 1949; Bhat/Broker 1953; Bois 1934; Boisvert/Aucante 1993; Boisvert/Hubert 2000; Bowles 1952; Burkill 3, 1995; Cheers 1998; Corti et al. 1996; Crecchio 1960; Dalby 2000; Dastur 1954; Davidson 1999; Dhar et al. 1988; Dudtschenko et al. 1989; Duke et al. 2003; Farrell 1985; Freiburglaus et al. 1998; Gonso et al. 2003; Greven 1992; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Himeno/Sano 1987; Hohmann et al. 2001; Hoppe 1949; Ingram 1969; ISO-Standard 1980; Leung 1991; Lewington 1990; Madan et al. 1966; Madan et al 1966; Mathew 1977; McGimpsey et al. 1996; Melchior/Kastner 1974; Morris/Mackley 1999; Munshi et al. 1989; Negbi 1999; Negbi et al. 1989; NICBPB 1987; Norman 1991; Oberdieck 1991; Omidbaigi et al. 2002; Palmer 1983, 1990; Pardo et al. 2002; Peter 2001; Peters 1927; Pfänder/Wittmer 1975; Pfister et al. 1996; Pochljobkin 1974, 1977; Pschyrembel 1998; Radjabian et al. 2001; Rosengarten 1969; Sampathu et al. 1984; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993; 2001a; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Small 1997; Souret/Weathers 2000; Staesche 1972; Straubinger et al. 1998; Tammara/Marra 1990; Tarantalis/Polissiou 1997; Täufel et

al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Vaupel 2002b; Vogt 1987; Wiersema/León 1999; Winterhalter/Straubinger 2000; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zamboni et al. 1995; Zareena et al. 2001; Zeven/de Wet 1982

CROTOLARIA L. - Rattlebox - Fabaceae (Leguminosae)

Crotolaria guatemalensis Benth.

Synonyms ▶ *Crotolaria carmioli* Polak.

Usage ▶ pot-herb

Parts Used ▶ leaf, young branches

Distribution ▶ Panama to Mexico, C America

Uphof 1968

Crotolaria longirostrata Hook et Arn.

Common Names ▶ castanet plant, long beaked rattle-pod; *Guatamala*: cap-in chop; *Spanish*: chipil(e), chipiliñ de comerc, panajachel

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ S America: Guatamala, Mexico, native Hawaii

Morton 1994; Uphof 1968

CROTON L. - Croton - Euphorbiaceae

Croton cascarilla Benn.

Synonyms ▶ *Croton niveus* Jacq.

Common Names ▶ wild rosemary; *German*: Wilder Rosmarin, Kaskarille; *Spanish*: cascarilla de Cuba, cascarilla de Trinidad

Usage ▶ spice, like rosemary(?)

Parts Used ▶ bark

Distribution ▶ Bahamas

Berger 1, 1949; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Ochoa/Alonso 1996; Seidemann 1993c; Villamar et al. 1994

Croton eluteria (L.) Sw.

Common Names ▶ cascarilla, cascarille; *German*: Saftlose Kaskarille; *Spanish*: cascarilla

Usage ▶ spice; **product**: essential oil. In the liqueur and tobacco industries

Parts Used ▶ bark

Distribution ▶ West Indies, Mexico, Caribbean, Meso-America, W, S America

Berger 1, 1949; Charalambous 1994; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Seidemann 1993c; Spapir/Francis 2001; Täufel et al. 1993; Wolters 1994; Wüstenfeld/Haensel 1964

Croton mubange Muell.

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ Congo

Terra 1966

Croton niveus Jacq

▶ *Croton cascarilla* Benn.

Croton variegatum L.

▶ *Codiaeum variegatum* (L.) Bl.

Croton zambesicus Müll.-Arg.

Common Names ▶ Egyptian wood tree;

Usage ▶ spice (in the Adamawa region of Nigeria)

Parts Used ▶ fruit

Distribution ▶ tropical Africa, from the Gambia to S Nigeria

Burkhill 2, 1994

Crucifera fontana E.H.L. Krause

▶ *Nasturtium officinale* R.Br.

 Crucifera latifolia E.H.L. Krause

➤ *Lepidium latifolium* L.

 Crucifera nasturtium E.H.L. Krause

➤ *Lepidium sativum* L.

 Cryphiospermum repens Pal.

➤ *Enydra fluctuans* Lour.

CRYPTOCARIA R. Br. - Lauraceae

 Cryptocaria canellila H.B.K.

➤ *Aniba canellila* (H.B.K.) Mez

 Cryptocaria aromatica (Becc.) Kosterm.

Synonyms ▶ *Cinnamomum massoia* Schew.; *Massoia aromatica* Becc.

Common Names ▶ massoy; *German*: Massoy, Massoi

Usage ▶ spice; earlier liqueur

Parts Used ▶ bark

Distribution ▶ New Guyana

Note ▶ Alternative for clove and a cinnamon substitute.

Griebel/Freytmuth 1916; Hanelt 2001; Schultze-Motel 2003; Seidemann 1993c; Staesche 1972; Uphof 1968; Wüstenfeld/Haensel 1964

 Cryptocaria guianensis Meissn.

Common Names ▶ *Brazil (Portuguese)*: casca-acucena; coaxicó

Usage ▶ flavoring

Parts Used ▶ wood

Distribution ▶ S America: Brazil

Kumar 2001; Mors et al. 2000

 Cryptocaria massoy (Becc.) Kosterm.

Common Names ▶ massoy; *German*: Massoy

Usage ▶ spice; **product**: essential oil

Parts Used ▶ bark

Distribution ▶ Malaysia

Guzman/Siemonsma 1999; Wiersema/León 1997

 Cryptocaria moschata Nees et Mart.

Synonyms ▶ *Cryptocaria aschersonia* Mez.

Common Names ▶ Brazilian nutmeg, (South) American nutmeg; *Brazil (Portuguese)*: canela de porco, canela fogo, canela pimenta, canela pururuca, noz-moscada-do-brasil; *German*: Amerikanische Muskatnuss, Brasilianische Muskatnuss; *Spanisch*: moscado do Brasil

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ S America: Brazil

Note ▶ Substitute for nutmeg.

Erhardt et al. 2002; Hager 5, 1993; Lorenzi1992; Mors et al. 2000; Rättsch 1998; Seidemann 1993c; Teuscher 2003; Warburg 1897

 Cryptocaria pretiosa Mart.

Synonyms ▶ *Ocotea pretiosa* Benth. et Hook.

Usage ▶ spice, flavoring

Parts Used ▶ bark

Distribution ▶ Guyana to Brazil

Boiss 1934

CRYPTOTAENIA DC. - Apiaceae (Umbelliferae)

 Cryptotaenia canadense (L.) DC.

Common Names ▶ honewort, wild chervil, wild stone parsley; *German*: Kanadische Steinpetersilie

Usage ▶ pot-herb

Parts Used ▶ fresh leaf

Distribution ▶ N America: Georgia, Alabama, Arkansas

Erhardt et al. 2002; Mansfeld 1968; Small 1997



***Cryptotaenia canadense* (L.) DC. var. *japonica* (Hassk.) Makino**

➤ *Cryptotaenia japonica* Hassk.



***Cryptotaenia japonica* Hassk.**

Synonyms ▶ *Cryptotaenia canadense* (L.) DC. var. *japonica* (Hassk.) Makino

Common Names ▶ Japanese parsley, (Japanese) honewort, Japanese wild chervil, mitsuba; *Chinese*: ya èrh chin; *German*: Dreiblätterkraut, Japanische Petersilie, Steinpetersilie; *Japanese*: mitsuba, mitzuba; *Korean*: padudugnamul; *Russian*: skryptnica japonskaja

Usage ▶ flavoring, pot-herb; **product**: essential oil seasoning (seeds)

Parts Used ▶ fresh leaf (herb); seed

Distribution ▶ Japan, China, E Asia, Russia, also cultivated in Korea, China, N America; sporadically in Europe

Note ▶ The plant comes in two varieties, *kansai* (green) and *kanto* (white).

Davidson 1999; Hanelt 2001; Kling 1999; Lee et al. 1993; Meijer 1940; Schultze-Motel 1986; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Zeven/de Wet 1982



***Cubeba officinalis* Raff.**

➤ *Piper cubeba* L.

**CUMINUM L. - Caraway -
Apiaceae (Umbelliferae)**



***Cuminum cyminum* L.**

Synonyms ▶ *Cuminum odorum* Salisb., *Ligusticum cuminum* (L.) Crantz

Common Names ▶ cumin, Egyptian caraway, Roman caraway; *Arabic*: kam(m)oun, kamun; *French*: cumin, cumin des prés; faux aneth, faux anis; *Ger-*

man: Kreuzkümmel, Kumin, Mutterkümmel, Römischer or Türkischer Kümmel, Wanzenkümmel, Kala; *Hindi*: jira; *India*: jeera, jirakasafed zeera; *Indonesian*: djintan, jinten putih; *Italian*: cumino vero, cumino proprio, cumino romano, cumino di Malta; *Javanese*: jinten bodas, jinten poteh; *Malaysian*: jintan puteh; *Mexico*: bere lele; *Russian*: kumin, timon, prjanij tmin, tmin tminowyj, rimskij tmin; *Sanskrit*: ajaji, jiraka; *Slovenian*: rascovec; *Spanish*: comino; *Thai*: yeera; *Turkish*: kimion, siyah zira

Usage ▶ spice, condiment; **product**: essential oil

Parts Used ▶ seed

Distribution ▶ Mediterranean region (Turkey), Egyptian, S Russia, Asia: India, Sri Lanka, Pakistan, China, Japan, Indonesia, Iran

Baser et al. 1992; Berger 3, 1952; Borges/Pino 1993a; Burkill 5, 2000; Clair 1961; Craze 2002; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; El-Hamadi/Richter 1965; Erhardt et al. 2002; Farrell 1985; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Heeger 1956; Heikes et al. 2001; Hepper 1992; Hiller/Melzig 1999; Hondelmann 2002; Hoppe 1949; Jansen 1981; Melchior/Kastner 1974; Morris/MacKley 1999; Norman 1991; Peter 2001; Pochljobkin 1974, 1977; Pruthi 1976; Quadry/Atal 1963; Rosengarten 1969; Roth/Kormann 1997; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shah/Ray 2003; Shetty et al. 1994; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Tassan/Russel 1975; Täufel et al. 1993; Tainter/Grenis 1993; Teuscher 2003; Tucker 1986; Ubbilos 1989; Uphof 1968; Verghese 1991; Weber 1951; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982



***Cuminum odorum* Salisb.**

➤ *Cuminum cymium* L.

**CUNILA Royen ex L. -
Lamiaceae (Labiatae)**



***Cunila origanoides* (L.) Britton**

Synonyms ▶ *Satureja origanoides* L.

Common Names ▶ American dittany, dittany, frost flower, frost mint, Maryland dittany, mountain dittany, stone mint; *German*: Amerikanischer Diptam, Maryland Diptam; Steinminze

Usage ▶ spice, as pizza herb

Parts Used ▶ herb

Distribution ▶ N America

Duke 2002; Duke et al. 2003; Small 1997; Uphof 1968



Cunila pulegioides L.

▶ *Hedeoma pulegioides (L.) Pers.*



Cunila spicata Benth.

Common Names ▶ (American) stone mint; *German*: (Amerikanische) Steinminze; *Portuguese*: poejo

Usage ▶ flavoring, use similar to the oregano herb

Parts Used ▶ herb

Distribution ▶ S America: Brazil: São Paulo to Rio Grande

Baren et al. 2001; Mabberly 1997; Mors et al. 2000; Teubner 2001; Villamar et al. 1994

CURCUMA L. - Saffron root - Zingiberaceae



Curcuma amada Roxb.

Common Names ▶ mango ginger; *German*: Mango-Ingwer, Blockzitwer, Gelber Zitwer; *India*: aam haldi; *Sanskrit*: karpura-haridra;

Usage ▶ spice

Parts Used ▶ rhizom

Distribution ▶ India, Pakistan, Bangladesh, also cultivated

Arora/Pandey 1996; Hanelt 2001; Rao et al. 1989; Schultze-Motel 1986; Seidemann 1993; Shiva et al. 2002; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982



Curcuma aromatica Salisb.

Common Names ▶ Bombay or Indian Arrowroot; wild turmeric, yellow zedoary; *German*: Aromatischer Blockzitwer, Wilde Gelbwurzel, Wilder Kurkuma, Würzige Safranwurzel(el); *Hindi*: jangli-haldi; *India*: kasturi majal, kasturi pasupu, kasturiarishina

ran halada; *Javanese*: temo potre, temu puteri; *Korean*: kangwang; *Russian*: kurkuma aromatihaja

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ India, also cultivated

Note ▶ The tender shoots are eaten as a vegetable.

Arora/Pandey 1996; Bois 1934; Duke et al. 2003; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Kumar 2001; Pochljobkin 1974, 1977; Schultze-Motel 1986; Shiva et al. 2002; Tao Guoda 1998; Täufel et al. 1993; Teuscher 2003; Zeven/de Wet 1982



Curcuma caesia Roxb.

Common Names ▶ black zedoary; *German*: Blaugraue Kurkuma; *Hindi*: nar-kachura; *India*: kalahaldi, kalihalidi, manupasupa

Usage ▶ spice (rarely)

Parts Used ▶ fresh rhizome

Distribution ▶ India: Bengalia

Chopra et al. 1956; Erhardt et al. 2002; Hoppe 1949; Kumar 2001; Uphof 1968; Wealth of India 2, 1950



Curcuma domestica Valetton

▶ *Curcuma longa L.*



Curcuma longa L. ■

Synonyms ▶ *Amomum curcuma* Jacq., *Curcuma domestica* Valetton, *Curcuma purpurescens* Bl.,

Common Names ▶ turmeric, Indian saffron, curcuma rhizome, yellow ginger; *Arabic*: kur kum, zangabeel asfer; *Chinese*: jiang huang, yu-chin; *French*: curcuma, curcuma longue, safran des Indes, souchet des Indes; terre-mérite; *German*: Kurkuma(wurzel), Gelbwurzel, Gilbwurzel, Safranwurzel(el), Gelber Ingwer; *Hindi*: haldi, halada; *Indonesian*: kunyit; *Italian*: curcuma longa, zafferano delle Indie, radice gialle; *Japanese*: ukon; *Javanese*: kunir; *Korean*: ulgum; *Malaysian*: kunyit; *Pilipino*: dilaw, duwaw, kalawag; *Portuguese*: açrão da Índia, gengibre dourado; *Russian*: kurkuma, kurkuma dlinnaja; shelyj koren'; *Sanskrit*: haridra, nisa; *Slovenian*: kurkuma; *Spanish*: cúrcuma larga, azafrán



■ **Curcuma longa**, flowering

de la India, turmérico, zafrán molido; *Thai*: khamin, khamin-kaeng, khamin-chan, kheemin, min, taa-ya sa-ya; *Vietnamese*: ngheden

Usage ► spice, condiment (“curry powder”); **product**: essential oil

Parts Used ► rhizome

Distribution ► SE tropical Asia, naturalized (India?), also cultivated: India, Pakistan, Sri Lanka, Thailand, S China, Japan, Indonesia, Philippines, Madagascar, Réunion, Caribbean Islands: Jamaica, Haiti

Note ► The *Curcuma longa*-powder is the main constituent of curry powder. The powder is also wrongly sold as “Saffron” (powder). In the Middle Ages turmeric was known as *Crocus indicus* or *Indian saffron*. The cormel are *Radix Curcumae rotundae*.

Araujo et al. 2001; Berger 2001; Bois 1934; Burkill 5, 2000; Chanem-Ming et al. 2002; Chatterjee et al. 2000; Craze 2002; Dastur 1954; Datta et al. 2001; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Farnsworth/Bunyapraphatsara 1992; Duke et al. 2003; Farrell 1985; Ferrão 1992; Fintelmann/Wegener 2001; Garg et al. 2002; Govindarajan 1980; Gwosdz 1987; Hager 4, 1992; Hanelt 2001; He et al. 1998; Hepper 1992; Herrmann 1999; Hiller/

Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Ibrahim bin Jantan et al. 1999; Jacquat 1990; Jentzsch et al. 1968; Karig 1975; Karl 2000; Krishnamurthy et al. 1976; Kumar 1991, 2001, 2003; Larsen et al. 1999; Leung 1991; Lewington 1990; Lösing et al. 1999; Lutomski et al. 1974; Magdan 1994; Maistre 1964; Malingré 1975; Manzan et al. 2003; McCarron et al. 1995b; Melchior/Kastner 1974; Morris/Mackley 1999; Nair et al. 1982; Nakayama et al. 1994; Norman 1991; Panja/De 2000; Peter 2001; Pfeifer et al. 2003; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rakhunde et al. 1998; Ramprasad/Sirsi 1956; Rosengarten 1969; Ross 1999; Roth 1998; Sanagi/Ahmad 1993; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Sen et al. 1974; Shahi et al. 1994; Shankaracharya/Natarajan 1973; Sharma 2003; Siewek 1990; Small 1997; Sopher 1964; Staesche 1972; Tao Guoda 1998; Täufel et al. 1993; Taylor/Mc-Dowell 1992; Teufel 2003; Turova et al. 1987; Uhl 2000; Uphof 1968; Ye layyudhan et al. 2000; Vergheze 1993; WHO 1990; Winkler/Lunau 1959; Wong 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Yusuf et al. 2002; Zeven/de Wet 1982



Curcuma mangga Valetton et Zijp

► *Curcuma zedoaria* (Christm.) Rosc.



Curcuma pallida Lour.

► *Curcuma zedoaria* (Christm.) Rosc.



Curcuma pierreana Gagnep.

Usage ► spice; **product**: essential oil.

Parts Used ► rhizome

Distribution ► Asia: India (Assam), Malaysia, cultivated in Vietnam

Nguyen Xuan Dung et al. 1995; Uphof 1968; Zeven/de Wet 1982



Curcuma purpurescens Bl.

► *Curcuma longa* L.



Curcuma rotundae

► *Curcuma longa* L.

**Curcuma rotunda** L.

➤ *Boesenbergia rotundata* (L.) Mansf.

**Curcuma xanthorrhiza** Roxb.

➤ *Curcuma zedoaria* (Christm.) Rosc.

**Curcuma zedoaria** (Christm.) Rosc.

Synonyms ▶ *Amomum zedoaria* Christm., *Curcuma mangga* Valetton et Zijp, *Curcuma pallida* Lour., *Curcuma xanthorrhiza* Roxb., *Curcuma zerumbet* Roxb.

Common Names ▶ cochin-tumer, long zedoary, mango gingerround zedoary, Japanese turmeric, Javanese turmeric 'setwall', yellow turmeric; *Arabic*: zad-wâr, zarunbâd; *Chinese*: peng e zhu; *French*: zédoaire, curuma zédoaire, temoé-lawag; *German*: Zittwer(wurzel), Javanische Gelbwurz(el); *Hindi*: banhaldi, kachura; *Italian*: zedoaria; *Japanese*: gajutsu; *Java*: temu lawak; *Korean*: achul; *Pilipino*: barak, bolon, lampoyang, langkauas; *Portuguese*: zedoária, zedoeira amarella, *Russian*: kurkuma zedoarija; *Spanish*: cedoaria, cedoaria redonda, cúrcuma de Java; *Thai*: phet buri, khamin khao; *Vietnamese*: nga truat, nghe den

Usage ▶ spice; **product**: essential oil

Parts Used ▶ rhizome

Distribution ▶ SE Asia, naturalized, also cultivated: India, China, Sri Lanka, Madagascar

Note ▶ The large fleshy rhizomes are rich in starch and used as a substitute for arrowroot.

Arora/Pandey 1996; Bois 1934; Dalby 2000; Dastur 1954; Duke et al. 2003; Farrell 1985; Hager 4, 1992; Hanelt 2001; Herklots 1972; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Ibrahim bin Jantan et al. 1999; Jentzsch et al. 1968; Kumar 2001, 2003; Kyung Im Kim et al. 2002; Larsen et al. 1999; Maiwald/Schwante 1991; Maistre 1964; Malingré 1975; Mau et al. 2003; Melchior/Kastner 1974; Morris/Mackley 1999; Norman 1991; Pochljobkin 1974, 1977; Pschyrembel 1998; Rimpler et al. 1970; Roth/Kormann 1997; Schultze-Motel 1986; Schwante 1991; Seidemann 1993c; Sen et al. 1974; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uhl 2000; Uphof 1968; WHO 1990; Winkler/Lunau 1959; Wong 1999; Yusuf et al. 2002; Zeven/de Wet 1982

**Curcuma zerumbet** Roxb.

➤ *Curcuma zedoaria* (Christm.) Rosc.

**CUSPARIA Humb. ex R. Br. - Rutaceae****Cusparia febrifuga** Humb. ex DC.

Synonyms ▶ *Cusparia trifoliata* Engl., *Galipea officinalis* Hancock;

Common Names ▶ angostura; *Brazil (Portuguese)*: amarinho-da-serra, amarelo, angostura; *German*: Angostura(rinde)

Usage ▶ spice, special for hard liqueur (Angostura-Bitter, Aromatic etc.)

Common Names ▶ bark

Distribution ▶ West Indies, Brazil, Venezuela, Columbia

Charalambous 1994; Erhardt et al. 2002; Hiller/Melzig 1999; Hoppe 1949; Mors et al. 2000; Uphof 1968; Wüstenfeld/Haensel 1964

**Cusparia trifoliata** Engl.

➤ *Cusparia febrifuga* Humb. ex DC.

**CYANOTIS G. Don - Commelinaceae****Cyanotis tuberosa** Schult. f.

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India: W, E Peninsula region

Arora/Pandey 1996; Kumar 2003

CYMBOPETALUM (Dunal) Benth. - Annonaceae



Cymbopetalum costaricense (Don. Smith.) Fries

Synonyms ▶ *Asimia costaricensis* Don. Smith.

Usage ▶ flavoring of drinking chocolate by natives

Parts Used ▶ floral leaves

Distribution ▶ Costa Rica

Uphof 1968



Cymbopetalum penduliflorum (Dunal) Baill.

Common Names ▶ Mexican earflower; *German*: Mexikanische Schleifenblume; *Spanish*: flor de la oreja, xochinacathli (Mexico)

Usage ▶ flavoring

Parts Used ▶ floral leaves

Distribution ▶ mountains of Mexico, Guatemala and Belize

Note ▶ Flavoring of drinking chocolate and other beverages by Aztecs in pre-Columbian times.

Erhardt et al. 2002; Hanelt 2001; Rättsch 1998; Schultze-Motel 1986; Uphof 1968

CYMBOPOGON Spreng. - Lemongrass - Poaceae (Gramineae)



Cymbopogon citratus (DC.) Stapf

Synonyms ▶ *Andropogon citratus* DC. *Andropogon citriodorum* Desf., *Andropogon schoenanthus* L.

Common Names ▶ citron grass, fever grass, fragrant thatch grass, geranium grass, West Indian lemon grass; *Cambodian*: slek krey sabou; *Chinese*: xiang mao; *French*: verweine de Indes, citronnelle, herbe-citron; *German*: Indisches Zitronengras, Lemon-gras, Serehgrass; *Hindi*: gandhatrn; *India*: herva chaha, khawi, verveine; *Indonesian*: serai dapur, sereh; *Italian*: citronella, lemongrass; *Javanese*: sere; *Malaysian*: serai dapur, sereh, sereh makan; *Peru*: yerba Luisa; *Pilipino*: tanglad, salai, balio-

ko; *Portuguese*: erva cidreira; *Slovenian*: vŕnovec citrónový; *Spanish*: pasto cedrón, pasto limón, sontol, zacate elimón; *Thai*: cha khrai, khrai, soet-kroei; *Vietnamese*: cay xa, sa chanh, xa

Usage ▶ spice, pot-herb; **product**: essential oil (lemon grass oil; *French*: essence de verweine de Indes)

Parts Used ▶ leaf (grass)

Distribution ▶ unknown wild; cultivated in: W India, Sri Lanka, Vietnam, Java to Malaysia, Mauritius, Madagascar

Aedo et al. 2001; Bor 1953, 1954; Boruah et al. 1995; Bournot 1968; Brandares et al. 1987; Burkill 4, 1997; Carlini et al. 1986; Cheers 1998; Chopra 1956; Craze 2002; Davidson 1999; Duke et al. 2003; Erhardt et al. 2002; Faruq et al. 1994; Ferrua et al. 1994; Fuentes 1986; Hager 4, 1992; Hanelt 2001; Herklots 1972; Hiller/Melzig 1999; Hoppe 1949; Jagadishchandra 1975a, b; Juida de Carlini 1986; Kasali et al. 2001; Larkcom 1991; Lewington 1990; Matos et al. 1984; Melchior/Kastner 1974; Mikus/Schaser 1995; Mors/Rizzini 1961; Norman 1991; Oyedele et al. 2002; Oyen/Dung 1999; Pschyrembel 1998; Ross 1999; Roth/Kormann 1997; Schaneberg/Khan 2002; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Shiva et al. 2002; Sing-Sangwan et al. 1993; Small 1997; Soenarko 1977; Staesche 1972; Strauß 1969b; Täufel et al. 1993; Teuscher 2003; Torres 1993; Uhl 2000; Uphof 1968 Villamar et al. 1994; Virmani et al. 1979; Wealth of India 2, 1950; WHO 1990; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982



Cymbopogon confertiflorus (Steud.) Stapf

▶ *Cymbopogon nardus* (L.) Rendle var. *confertiflorus* (Steud.) Stapf ex Bor.



Cymbopogon exaltatus Domin

Common Names ▶ East India lemon grass; *German*: Ostindisches Lemongras, Hohes Lemongras

Usage ▶ spice

Parts Used ▶ fresh leaf (grass)

Distribution ▶ E India

Jagadishchandra 1975a, b



Cymbopogon flexuosus (Nees ex Steud.) Stapf

Synonyms ▶ *Andropogon flexuosus* Nees ex Steud.

Common Names ▶ lemon grass, East Indian lemon grass, Malabar grass, Cochin grass; *Brazil (Portuguese)*:

capim-limao, erva cidreira; *French*: herbe de Malabar, verveine des Indes; *German*: Malabargras, Ostindisches Lemongras, Cochingras; *India*: poo-lu; *Spanish*: pasto de Malabar

Usage ▶ spice, flavoring; **product**: essential oil (Malabar or Cochin oil)

Parts Used ▶ leaf (grass)

Distribution ▶ India, Indochina, SE Asia, Equatorial Africa and in the Caribbean also cultivated

Note ▶ Only the red-stemmed plant type is commercially cultivated for East Indian lemon grass oil (= Cochin lemon grass oil or Malabar grass oil). White-stemmed plants “Inchigrass” (sometimes separated at species level they belong to *Cymbopogon travancorensis* Bor from S India and are rarely cultivated. They are a source of essential oil (Inchigrass oil).

Boelens 1992, 1994; Bor 1993, 1994; Bournot 1968; Erhardt et al. 2002; Hanelt 2001; Hepper 1992; Jagadishchandra 1975a, b; Kulkarni/Ramesh 1992; Kumar 2001; Melchior/Kastner 1974; Morris/Mackley 1999; Moes/Rizzini 1961; Oyen/Dung 1999; Rajeswara et al. 1996; Roth/Kormann 1997; Schenck/Naundorf 1966; Seidemann 1993c; Sharma 2003; Shiva et al. 2002; Siewek 1990; Small 1997; Soenarko 1977; Srivastava et al. 2002; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982

Cymbopogon giganteus (Hochst.) Chiov.

Synonyms ▶ *Andropogon giganteus* Hochst.

Common Names ▶ tsauro grass; *French*: beignefata; *German*: Großes Lemongras;

Usage ▶ flavoring; **product**: essential oil (rich in phellandrine)

Parts Used ▶ leaf (grass)

Distribution ▶ W Africa: Senegal, the Gambia, Guinea, Ghana, Mozambique, Niger, Nigeria, Ivory Coast,

Burkill 1985; Hanelt 2001

Cymbopogon iwarancusa (Jones) Schult. ex Roem. et Schult.

Synonyms ▶ *Andropogon iwarancusa* W. Jones.

Common Names ▶ karnkusa grass, khavi grass; *Brazil (Portuguese)*: capim cheiroso da India; *India*: jwarancusa;

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf (grass)

Distribution ▶ India, Afghanistan, Himalayas

Note ▶ The essential oils contain more than 80% Piperitone.

Bournot 1968; Erhardt et al. 2002; Hanelt 2001; Jagadishchandra 1975a, b; Shiva et al. 2002; Uphof 1968

Cymbopogon martinii (Roxb.) J.F. Wats. ex Atkinson

Synonyms ▶ *Andropogon martinii* Roxb.

Common Names ▶ ginger grass, rosha grass, palmarosa grass; *German*: Ingwergras, Palmarosagras

Usage ▶ spice, flavoring; **product**: essential oil (Palmarosa oil, East Indian Geranium oil)

Parts Used ▶ leaf (grass)

Distribution ▶ N India, cultivated: India, Indonesia, Brazil, Madagascar, Zimbabwe, S Africa

Boelens 1994; Charalambous 1994; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hepper 1992; Jagadishchandra 1975a, b; Kumar 2001; Oyen/Dung 1999; Roth/Kormann 1997; Sartoratto/Augusto 2003; Sharma 2003; Small 1997; Soenarko 1977; Srivastava/Satpute 2001; Srivastava et al. 2002; Small 1997; Teuscher 2003; Uphof 1968; Wealth of India 2, 1950; Zeven/de Wet 1982

Cymbopogon nardus (L.) Rendle

Common Names ▶ citronella, Ceylon citronella, nard grass; *French*: citronelle; *German*: (Ceylon) Zitronellgras, Lenabutagras; *Japanese*: kôsui gaya; *Portuguese*: citronela de Java; *Spanish*: zacate lemón

Usage ▶ spice, flavoring; **product**: essential oil (citronell oil)

Parts Used ▶ leaf (grass)

Distribution ▶ India, cultivated SE Asia, Sri Lanka; C, E Africa

Bois 1934; Bournot 1968; Charalambous 1994; Hager 4, 1992; Hanelt 2001; Hepper 1992; Jagadishchandra 1975a, b; Kumar 2001; Mahalwal/Alì 2003; Melchior/Kastner 1974; Moody et al. 1995; Mors/Rizzini 1961; Rajeswara et al. 1996; Roth/Kormann 1997; Seidemann 1993c; Shiva et al. 2002; Siewek 1990; Small 1997; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982



Cymbopogon nardus (L.) Rendle var. **confertiflorus** (Steud.) Stapf ex Bor.

Synonyms ▶ *Andropogon confertiflorus* Steud.

Common Names ▶ citronella, citronelle grass, manna grass; *German*: Dichtblättriges Zitronellgras, Mannagras

Usage ▶ spice, flavoring; **product**: essential oil (citronelle oil)

Parts Used ▶ leaf (grass)

Distribution ▶ S India, Sri Lanka, also cultivated

Hanelt 2001; Jagadishchandra 1975a, b; Pursglove 1972; Small 1997



Cymbopogon schoenanthus (L.) Spreng.

Synonyms ▶ *Andropogon schoenanthus* L.

Common Names ▶ camel or geranium grass; *French*: herba à chameau, *German*: Kamelgras; *Spanish*: pasto de camellos

Usage ▶ spice, flavoring; **product**: essential oil

Parts Used ▶ leaf (grass)

Distribution ▶ N Africa: Morocco to Tunisia, Arabia, NW India, Afghanistan

Chopra et al. 1956; Erhardt et al. 2002; Hanelt 2001; Hepper 1992; Jagadishchandra 1975b; Lewington 1990; Mors et al. 2000; Uphof 1968



Cymbopogon travancorensis Bor

▶ *Cymbopogon flexuosus* (Steud.) Stapf (see Note)



Cymbopogon winterianus Jowitt ex Bor

Synonyms ▶ *Andropogon nardus* (L.) Hook.f. var. *mahapangiri* auct.

Common Names ▶ Java citronella, Java lemon grass; *French*: herba citron de Java; *German*: Echtes Zitronengras, Java-Zitronengras, Java-Zitronelle, Maha-Pengiri-Gras

Usage ▶ spice, flavoring; **product**: essential oil (Java citronell oil)

Parts Used ▶ leaf (grass)

Distribution ▶ Sri Lanka; only cultivated, especially in SE: China and S America; Guatemala

Note ▶ Java citronella oil contains 25–55% geraniol, about 35% citronellal. Strains with a citronellal content of 70% have been selected.

Boelens 1994; Bois 1934; Bor 1953, 1954; Bournot 1968; Charalambous 1994; Chopra et al. 1956; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Jagadishchandra 1975a, b; Naqvi et al. 2002; Ng 1972; Oyen/Dung 1999; Pschyrembel 1998; Pursglove 1972; Roth/Kormann 1997; Sahoo/Debata 1955; Seidemann 1993c; Sharma 2003; Shiva et al. 2002; Sing et al. 1996; Small 1997; Soenarko 1977; Srivastava et al. 2002; Täufel et al. 1993; Teuscher 2003; Wealth of India 2, 1950; Zeven/de Wet 1982



Cyminosma odorata DC.

▶ *Acronchia odorata* (Lour.) Baill.



Cymonchia resinosa DC.

▶ *Acronchia pudiculata* (L.) Miq.



Cymopterus littoralis A. Gray

▶ *Glehnia littoralis* F. Schmidt ex Miq.

**CYNOMETRA L. -
Fabaceae (Leguminosae)**



Cynometra cauliflora L.

Common Names ▶ *Malaysian*: katak puru, nam nam (for the pods), puki, puru

Usage ▶ flavoring, spice; **product**: of chutney

Parts Used ▶ cooked fruits

Distribution ▶ India, Malaysia; cultivated in Java, Malacca and India

Hanelt 2001; Schultze-Motel 1986; Uphof 1968

CYNOMORIUM L. - Balanophoraceae (Cynomoriaceae)

C

Cynomorium coccineum L.

Usage ► condiment by the Tuareg

Parts Used ► root (pulverized)

Distribution ► N Africa

Mabberley 1997; Uphof 1968

CYRTANDRA J.R. Forst et G. Forst - Gesneraceae

Cyrtandra pendula Bl.

Usage ► flavoring, spices

Parts Used ► sourish leaf

Distribution ► Java

Burkill 1966; Lemmens/Bunyapratsara 2003; Oyen/Dung 1999

CYTISUS Desf. - Fabaceae (Leguminosae)

Cytisus scoparius (L.) Link

Synonyms ► *Sarothamnus scoparius* (L.) Wimmer ex Koch, *Spartium scoparium* L.

Common Names ► broom, common broom, hogweed, scotch broom; *Chinese*: chin ch'iao; *French*: genêt, genêt à balais, genêt commun; *German*: Besenginster, Besenpfriem, Geißkapern; *Italian*: citiso dei carbonai, ginestra dei carbonai, genistra scopareccia; *Russian*: sarotamnus metel'tschatyj, sarotamnus metlistyj; *Spanish*: escobón, ginesta de escobas, retama negra;

Usage ► condiment; substitute for capers

Parts Used ► flower bud

Distribution ► C, E Europe

Aichele/Schwegler 2, 1994; Berger 1, 1949; 4, 1954; Bremness 2001; Cheers 1998; Coiciu/Racz (no year); Erhardt et al. 2002; Fleischhauer 2003; Gressner 1996, 1997; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Newall et al. 1996; Pschyrembel 1998; Rättsch 1998; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Wyk et al. 2004; Zeven/de Wet 1982

D

**DACRYDIUM Lamb. - Rimu -
Podocarpaceae** **Dacrydium franklinii** Hook.

Common Names ▶ Huon pine, Macquarie pine

Usage ▶ flavoring; **product** of vanillin and huon pine oil

Parts Used ▶ wood

Distribution ▶ Australia, New Zealand, New Caledonia, Malaysian Archipelago, Borneo

Note ▶ The wood has a high methyl eugenol content.

Mabberley 1997; Uphof 1968

**DAPHNE L. - Daphne -
Thymelaeaceae** **Daphne mezereum** L.

Common Names ▶ (February) daphne, mezereon; *French*: bois gentil, bois joli, daphné morillon, garo sain-bois; *German*: Bergpfeffer, Gemeiner Seidelbast, Kellerhals; *Italian*: mezereo camelea, laureola femmina; *Russian*: woltschje lyko; *Spanish*: dafne, loriguillo mezéreo, mezereón, torvidco

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Europe, W Asia, Canada; cultivated as an ornamental plant

Note ▶ Sporadically a substitute for pepper when not available! All parts of the plant are poisonous.

Cheers 1998; Erhardt et al. 2002; Hager 3, 1992; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Schönfelder 2001; Seidemann 1993c

**DAUCUS L. Carrot -
Apiaceae (Cruciferae)** **Daucus carota** L. *ssp. sativus* (Hoffm.) Schübl.
et G. Martens

Common Names ▶ garden carrot, carrot; *Arabic*: jazar; *Chinese*: he shi feng, hu lu bo, yeh lo po; *Dutch*: peen; *French*: carotte, racine jaune; *German*: Garten-Möhre, Möhre, Mohrrübe, Karotte, Gelbe Rübe; *Italian*: carota; *Japanese*: ninjin; *Korean*: hongdangmuu; *Malaysian*: lobak merah, karot; *Portuguese*: cenoura; *Russian*: morkov' kul'turnaja; *Spanish*: zanahoria

Usage ▶ spice: succade

Parts Used ▶ turnip-root

Distribution ▶ only cultivated world-wide

Note ▶ Substitute for orangade succade („Kandinat M“) in the former German Democratic Republic (DDR, E Germany) after enzymatic treatment.

Aichele/Schwegler 3, 1995; Cheers 1998; Dudtschenko et al. 1989; Hanelt 2001; Kays/Dias 1995; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al 1993; Wyk et al. 2004; Zeven/de Wet 1982

 Daucus visnaga L.

▶ *Ammi visnaga* (L.) Lam.

DECALEPIS Wight et Arn. - Asclepiadaceae

Decalepsis hamiltonii Wight et Arn.

Common Names ▶ mahali kizhangu

Usage ▶ spice (in India for meat) and condiment

Parts Used ▶ root

Distribution ▶ E India, Deccan Peninsula

Note ▶ The aromatic roots also pickled with lime.

Arora/Pandey 1996; Nagarajan/Rao 2003; Phadke et al. 1994; Seidemann 1993c; Thangadurai et al. 2002

DECASPERMUM Forst. et Forst.f. - Myrtaceae

Decaspermum fruticosum Forst.

Synonyms ▶ *Nelitris paniculata* Lindl., *Psidium decaspermum* L.f.

Common Names ▶ shrubby decaspermum, tailor tree;

Malaysian: na s'tuka, tuka benang, tukai benai

Usage ▶ condiment (Java)

Parts Used ▶ terminal shoots

Distribution ▶ tropical Asia to Australia and Polynesia

Uphof 1968

DEIANIRA Cham. et Schlecht. - Gentianaceae

Deianira nervosa Cham. et Schlecht.

Synonyms ▶ *Callopsima amplexifolium* Mart.

Common Names ▶ *German:* Deianirakraut; *Brazil (Portuguese):* angelica bravo do matto

Usage ▶ spice; **product:** for bitter liqueurs

Parts Used ▶ herb

Distribution ▶ Brazil, also cultivated

Freise 1936; Hanelt 2001; Schultze-Motel 1986

DENDROBIUM Sw. - Orchidaceae

Dendrobium salaccense (Bl.) Lindl.

Synonyms ▶ *Dendrobium gemellum* Ridley, *Grastidium salaccense* Bl.

Usage ▶ seasoning of rice

Parts Used ▶ leaf

Distribution ▶ tropical Asia, especially Malayan Peninsula

Oyen/Dung 1999; Uphof 1968

Dendrobium gemellum Ridley

▶ *Dendrobium salaccense* (Bl.) Lindl.

DENNETTIA E.G. Baker - Annonaceae

Dennettia tripetala Baker f.

Common Names ▶ pepper fruit

Usage ▶ spice

Parts Used ▶ young leaf, fruit

Distribution ▶ W Africa: Ivory Coast, Nigeria

Note ▶ The fruits have a peppery spice taste.

Burkill 1, 1985

DESPLATSIA Bocquillon - Tiliaceae

Desplatsia dewevrei (de Wild. et Durand) Burret

Common Names ▶ *German:* Desplatsiafrucht

Usage ▶ spice for sauces

Parts Used ▶ fruit slime

Distribution ▶ tropical W Africa: Central African Republic, Nigeria

Burkhill 5, 2000; Neuwinger 1999

 Dialyanthera otoba (H. et B.) Warb.

➤ *Myristica otoba* H. et B.

DIANTHUS L. - Caryophyllaceae

 Dianthus caryophyllus L.

Synonyms ▶ *Dianthus coronarius* Lam.

Common Names ▶ carnation, clove pink, gilly flower;

French: oeillet à bouquet, oeillet giroflée, oeillet de fleuristes *German*: Edelnelke, Gartennelke, Landnelke; *Italian*: garofano, garofano domestico; *Japanese*: kaneishon, rande nadeshiko; *Russian*: gvozdika gollandskaja, gvozdika sadovaja; *Spanish*: alheli, clavel, claveles

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ flower

Distribution ▶ cultivated in Europe: Italy, Sardinia, Sicily; cultivated in Spain, S France, the Netherlands, Caucasus and other countries

Bremness 2001; Cheers 1998; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Stör 1974; Tucker 1986; Uphof 1968; Villamar et al. 1994; Zeven/de Wet 1982

 Dianthus chinensis L.

Common Names ▶ carnation annual pink, Chinese pink, Indian pink; *Chinese*: qu mai; *French*: oeillet de Chine; *German*: Chinesische Nelke, Kaiser-Nelke; *Japanese*: kara nadeshike; *Korean*: phaeraengik-kot; *Russian*: gvozdika

Usage ▶ flavoring

Parts Used ▶ flower

Distribution ▶ E China, Korea; in India and Korea cultivated

Cheers 1998; Chopra 1956; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999; NICBPB 1987; Roth/Kormann 1997; Schultze-Motel 1986

 Dianthus coronarius Lam.

➤ *Dianthus caryophyllus* L.

DICERANDRA Benth. - Florida mints, Dicerandra Balm - Lamiaceae (Labiatae)

 Dicerandra christmannii Huck et Judd

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S USA

McCormick et al. 1993

 Dicerandra cornutissima Huck

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S USA

McCormick et al. 1993

 Dicerandra frutescens Benth.

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S USA

Note ▶ A high aromatic 'mint' plant.

Eisner et al. 1990; McCormick et al. 1993

 Dicerandra immaculate Lakela

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S USA

McCormick et al. 1993

DICTAMNUS L. - Dittany - Rutaceae

Dictamnus albus L.

Synonyms ▶ *Dictamnus gymnostylis* Steven

Common Names ▶ burning bush, dittany, dittander; *Chinese*: bai xian pi; *French*: dictame blanc; herbe aux éclairs; *German*: Brennender Busch, Flammender Busch, Diptam, Hexenkraut, Pfefferkraut, Spechtwurz, Weißer Diptam; *Italian*: dittamo bianco; *Russian*: jasenez

Usage ▶ flavoring and bitter (sporadically for alcoholic beverage)

Parts Used ▶ root

Distribution ▶ E, EC Europe, Iberian Peninsula, Germany, the Balkans

Aichele/Schwegler 3, 1995; Charalambous 1994; Cheers 1998; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Kubeckza et al. 1990; Roth/Kormann 1997; Schönfelder 2001; Seidemann 1993c; Small 1997; Uphof 1968; Wüstenfeld/Haensel 1964

Dictamnus creticus J. Hill

▶ *Origanum dictamnus* L.

Dictamnus gymnostylis Steven

▶ *Dictamnus albus* L.

DICYPELLIUM Nees et Mart.-Lauraceae

Dicypellium caryophyllatum Nees

Common Names ▶ clove bark, pinkwood bark; *Brazil (Portuguese)*: canelaira-cravo, craveiro-do maranhao, cravo-do-mato, cravinho, louro-cheirosa, louro-cravo, pau-cravo; *French*: cannellier giroflée; *German*: Nelkenzimt, Schwarzer Zimt; *Russian*: koriza gvosditschnaja

Usage ▶ spice, like cinnamon or glove bark; flavoring; **product**: essential oil

Parts Used ▶ bark

Distribution ▶ tropical America

Note ▶ The root was discovered in 1539 by Gozola Pizarro in the Upper Amazonas area.

Bois 1934; Erhardt et al. 2002; Hager 4, 1992; Hiller/Melzig 1999; Hoppe 1949; Kumar 2001; Mors et al. 2000; Seidemann 1993c; Seidemann/Siebert 1987; Staesche 1972; Teuscher 2003; Uphof 1968

DIGERA Forssk. - Amaranthaceae

Digera alternifolia Asch.

▶ *Digera muricata* (L.) Mart.

Digera arvensis Forssk.

▶ *Digera muricata* (L.) Mart.

Digera muricata (L.) Mart.

Synonyms ▶ *Digera alternifolia* Aschers, *Digera arvensis* Forssk.

Common Names ▶ wild rhubarb; *Arabic*: bud(d)jer, did(d)jar; *Hindi*: kanjero, latmhura, lasua tandla

Usage ▶ pot-herb (in India)

Parts Used ▶ leaf, tender shoot

Distribution ▶ S, SE Asia: India, Afghanistan, Indonesia, NE tropical Africa: Ethiopia, Arabia

Agarwal 1986; Arora/Pandey 1996; Hanelt 2001; Seshadri/Nambiar 2003; Uphof 1968

DILLENIA L. - Dilleniaceae

Dillenia indica L.

Common Names ▶ chalta tree, elephant apple; *German*: Chalthafrucht, Elephantenapfel; *Hindi*: chalta, cinar, hondapara, outenga, karambel; *Indone-*



■ **Dillenia indica**, fruiting

sian: saimpol; *Japanese*: biwa modoki; *Javanese*: simpoh, chimpoh; *Malaysian*: chimpoh, (Indian) simpoh; *Pilipino*: katmon; *Portuguese*: frula estrela; *Thailand*: mataat; *Vietnamese*: sō

Usage ▶ flavoring (acidic tasting for curries and jellies)

Parts Used ▶ fruit pulp

Distribution ▶ India, Sri Lanka, Indochina, Malaysia, W Africa: Cameroon, Ghana, Nigeria, Sierra Leone

Note ▶ The fruit should not be confused with the fruit of *Fernonia limonia* (L.) Swingle; the leaves have the aroma of anise seeds.

Bois 1934; Burkill 1966; 3, 1995; Cheers 1997; Dastur 1954; Engel/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Hoogland 1952; Kottegoda 1994; Kumar 2003; Lück 2000; Schenck/Naundorf 1966; Schultze-Motel 1986; Storrs 1997; Täufel et al. 1993; Uphof 1968; Wealth of India 3, 1952; Wiersema/León 1999



Diosma fragrans Sims

➤ *Adenandra fragrans* (Sims) Roem. et Schult.



Diosma odorata (Wendl.) DC.

➤ *Barosma crenulata* (Torner) Hook.

DILOTAXIS DC. - Wall rocket - Brassicaceae (Cruciferae)



Diplotaxis tenuifolia (L.) DC.

Common Names ▶ Lincoln's weed, sand rocket; *German*: Schmalblättriger Doppelsame, Doppelrauke, Ausdauernde Rucola

Usage ▶ pot-herb (locally)

Parts Used ▶ leaf

Distribution ▶ Europe

Aichele/Schwegler 3, 1995; Erhardt 2002; Täufel et al. 1993

DIPTERYX Schreb. - Tonka Bean - Fabaceae (Leguminosae)



Dipteryx odorata (Aubl.) Willd. ■

Synonyms ▶ *Baryosma longa* Gaertn., *Coumarouna odorata* Aubl.

Common Names ▶ tonka, tonka bean; *Brazil (Portuguese)*: cumaru, cumaru-amarelo, cumaru-doamazonas; cumarurana, cumbaru, fêves tonka, muimapagé; *French*: coumarouna, fève de Tonka, tonquin; *German*: Tonkabohne; *Russian*: dipteriks

Usage ▶ spice, substitute for vanilla; flavoring of snuff and liqueurs; **product**: coumarin

Parts Used ▶ seed

Distribution ▶ N Brazil, Venezuela, Malaya, Guyana, Surinam

Note ▶ Seed is strongly bitter, the odor strong after coumarin; the coumarin is a carcinogenic substance and is forbidden in foods in many countries. The use of natural coumarin in food was banned in the USA and other countries (e.g. Germany) in 1954.

Boisvert/Hubert 2000; Davidson 1999; Duke et al. 2003; Ehlers et al. 1995; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hayashi/Thompson 1974; Hoppe 1949; Kumar 2001; Lorenzi 1992;



■ **Dipteryx odorata**, seeds

Pound 1938; Mors/Rizzini 1961; Mors et al. 2000; Nakano/Suarez 1969; Pursglove 1968; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; 1994; Seidemann/Siebert 1987; Sullivan 1982; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wörner/Schreier 1991; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

 Dipteryx oppositifolia (Aubl.) Willd.

➤ *Taralea oppositifolia* Aubl.

 Dipteryx punctata (Blake) Amshoff

Common Names ▶ pointed tonka; *German*: Punktierte Tonkabohne

Usage ▶ spice, like tonka bean

Parts Used ▶ seed

Distribution ▶ Northern S America: Venezuela, Columbia, Caribbean

Hanelt 2001; Kumar 2001; Pursglove 1974; Schultze-Motel 1986; Seidemann 1993c

DISSOTIS Benth. - Melastomataceae

 Dissotis plumosa (D. Don) Hook f.

Synonyms ▶ *Dissotis rotundifolia* (Sm.) Triana

Common Names ▶ rock rose; *German*: Felsenrose

Usage ▶ spice for sauces, pot-herb

Parts Used ▶ leaf

Distribution ▶ C and W Africa: Sierra Leone to Zaire, Cameroon, Liberia

Ayensu 1978; Erhardt et al. 2002; Neuwinger 1998

 Dissotis rotundifolia (Sm.) Hook f.

➤ *Dissotis plumosa* (D. Don) Hook

 Dittrichia viscosa (L.) Greut.

➤ *Inula viscosa* (L.) Ait.

 Donacodes walang Bl.

➤ *Etlingera walang* (Bl.) R.M. Smith

DORSTENIA L. - Moraceae

 Dorstenia contrajerva L.

Synonyms ▶ *Dorstenia houstonii* L., *Dorstenia maculata* Lem., *Dorstenia quadrangularis* Stokes

Common Names ▶ Torn's herb, sanke wood; *French*: herbe aux serpents, racine de charchis; *German*: Dorstenie, Schlangenzur; *Mexico*: barbadilla; *Spanish*: contra hierba, contra de jorba, contra-jerba

Usage ▶ flavoring

Parts Used ▶ leaf, rhizome

Distribution ▶ Brazil, S Mexico, West Indies, Africa; Java, Malaccas and in Africa and S America cultivated locally

Note ▶ The leaves and rhizome powder are used for improving the taste of cigarette tobacco.

Burkhill 1966; Hanelt 2001; Schultze-Motel 1986

Dorstenia houstoni L.

▶ *Dorstenia contrajerva* L.

Dorstenia maculata Lem.

▶ *Dorstenia contrajerva* L.

Dorstenia opifera Mart.

Common Names ▶ *Brazil (Portuguese):* caapiá

Usage ▶ flavoring of tobacco

Parts Used ▶ rhizome

Distribution ▶ S America: Brazil

Kumar 2001

Dorstenia quadrangularis Stokes

▶ *Dorstenia contrajerva* L.

DORYSTAECHAS Boiss. - Lamiaceae /Labiatae)

Dorystaechus hastata Boiss. et Heldr. ex Benth.

Common Names ▶ Turkish lavender; *German:* Türkischer Lavendel

Usage ▶ flavoring; **product:** essential oil

Parts Used ▶ herb

Distribution ▶ Turkey: Antalya; W Asia

Başer/Öztürk 1992; Meriçili/Meriçili 1986

DRACOCEPHALUM L. - D's Head - Lamiaceae (Labiatae)

Dracocephalum ibericum Bieb.

Synonyms ▶ *Lallemantia iberica* (Bieb.) Fisch. et Mey.

Common Names ▶ *German:* Iberischer Drachenkopf

Usage ▶ pot-herb (in Iran)

Parts Used ▶ leaf

Distribution ▶ Asia Minor, Caucasus, Mesopotamia, Syria, Palestine

Uphof 1968

Dracocephalum mexicanum H.B.K.

▶ *Agastache mexicana* (Kunth) Lint et Epling

Dracocephalum moldavica L.

Synonyms ▶ *Moldavica punctata* Moench, *Moldavica suaveolens* Gilib.;

Common Names ▶ Moldavian balm, dragon's head;

Chinese: xiang qing lan; *French:* dracocéphale moldavique, tête-de-dragon; *German:* Moldawischer Drachenkopf; Türkischer Drachenkopf, Moldauischer Drachenpfeffer, Türkische Melisse; *Russian:* melissa turezkaja, smeegolownik moldawskij, drakonogolownik, sinjawka

Usage ▶ spice, flavoring (liqueurs, worm wood wine, refreshment drinks)

Parts Used ▶ leaf, herb

Distribution ▶ E Europe, especially Moldavia, C Alps, S Siberia to Russian Far East, SW Asia, NW China

Böttcher/Günther 2003; Bois 1934; Dudtschenko et al. 1989; Erhardt et al. 2002; Halász-Zelenik et al. 1988; Hanelt 2001; Hiller/Melzig 1999; Holm et al. 1988a, b; Kakasy et al. 2002; Mikus/Schaser 1995; Pank et al. 1989; Pochljobkin 1974, 1977; Povilaityte/Venskutonis 2000; Povilaityte et al. 2001; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Teuscher 2003; Wealth of India 3, 1952

DRACONTOMELON BL. - Anacardiaceae

Dracontomelon dao (Blanco) Merr. et Rolfe

Synonyms ▶ *Dracontomelon mangiferum* (Blanco) Merr. et Rolfe; *Dracontomelon sylvestre* Bl.

Common Names ▶ argus pheasant; *Chinese* yan min, yan mien chi; *Dutch*: drakeboom; *German*: Drachenapfel; *Malaysian*: asam kuang, sengkoe-wang; *Pilipino*: dao, batuan, kamarak, maliyau

Usage ▶ spice, flavoring curries

Parts Used ▶ fruit, leaf, flower

Distribution ▶ Asia: S China, Hong Kong; Myanmar, Thailand, Vietnam, Malaysia, Philippines

Note ▶ The lemon-like taste is very sour.

Burkill 1985; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Tigga/Sreekumar 1996; Uphof 1968; Wealth of India 3, 1952

Dracantomelon mangiferum (Blanco) Merr. et Rolfe

➤ *Dracantomelon dao* Bl.

Dracantomelon sylvestre Bl.

➤ *Dracantomelon dao* (Blanco) Merr. et Rolfe

DRIMYS J.R. Forst. et G. Forst. - Winter's Bark - Winteraceae (Magnoliaceae)

Drimys aromatica F. v. Muell.

➤ *Drimys lanceolata* (Poir.) Baill.

Drimys lanceolata (Poir.) Baill.

Synonyms ▶ *Drimys aromatica* F. v. Muell., *Tasmannia lanceolata* (Poir.) A.C. Sm.

Common Names ▶ pepper tree, Australian pepper tree, mountain pepper, Tasmania pepper; *German*: Pfefferbaum, Tasmaniapfeffer

Usage ▶ spice, like black pepper (pepper substitute); leaf: flavoring

Parts Used ▶ fruit

Distribution ▶ Australia: NS Wales, Victoria, Tasmania

Note ▶ The leaves of this plant also have a hot taste.

Erhardt et al. 2002; Mabberley 1997; Read/Menary 2001; Uphof 1968; Wiersema/León 1999

Drimys winteri J.R. Forst. et G. Forst.

Synonyms ▶ *Winterana aromatica* Desc.

Common Names ▶ drimys bark, Winter's bark, Magelhanian caneel; *Brazil (Portuguese)*: canela-amarga, casca-d'anta, cataia, melambo, paratudo, pau-para-tudo; *French*: Cannelle de Magellan; *German*: Beiß-Canelo, Chilenischer Canelo, Karibischer Zimt, Magelhanischer Zimt, Winter's-Rinde; *Mexico*: yaga yña

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ Chile to Cape Horn, S Argentina

Note ▶ The bark introduced by Captain John Winter 1578.

Berger 1, 1949; Bois 1934; Cortés/Oyarzún 1981; Erhardt et al. 2002; Hager 4, 1992; Hiller/melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Lorenzi 1992; Mors et al. 2000; Rättsch 1998; Seidemann 1993c; Teuscher 2003; Uphof 1968; Wüstenfeld/Haensel 1964

DRYPETES Vahl - Euphorbiaceae

Drypetes aubrevillei Léandri

Common Names ▶ pepper bark, pepper stick, sting pepper; *German*: Pfefferrinde

Usage ▶ spice (rarely)

Parts Used ▶ bark

Distribution ▶ W Africa: Sierra Leone, Liberia, Ivory Coast

Note ▶ The bark has a peppery taste.

Burkill 2, 1994



■ **Drimys winteri**, flowering



Drypetes paxii Hutch

Usage ▶ spice (rarely)

Parts Used ▶ bark

Distribution ▶ W Africa: S Nigeria, W Cameroon and on to Gabun

Note ▶ The bark has a peppery taste.

Burkill 2, 1994



Drypetes pellegrinii Léandri

Usage ▶ spice (rarely)

Parts Used ▶ bark

Distribution ▶ W Africa: Ivory Coast and Ghana

Note ▶ The bark has a spicy taste.

Burkill 2, 1994

DYSOXYLUM BL. - Meliaceae



Dysoxylum alliaceum (Bl.) Bl.

Synonyms ▶ *Dysoxylum costulatum* (Miq.) Miq., *Dysoxylum euphlebioides* Merr., *Dysoxylum thyrsoideum* Hiern.

Usage ▶ flavoring

Parts Used ▶ young leaves (cooked)

Distribution ▶ Andaman Islands, Thailand, Indonesia, Malaysian Archipelago, N Australia, Solomon Islands, S Vietnam

Note ▶ All parts smell strongly of onions.

Guzman/Siemonsma 1999; Terra 1966



Dysoxylum costulatum (Miq.) Miq.

➤ *Dysoxylum alliaceum* (Bl.) Bl.



Dysoxylum euphlebioides Merr.

➤ *Dysoxylum alliaceum* (Bl.) Bl.



Dysoxylum thyrsoideum Hiern.

➤ *Dysoxylum alliaceum* (Bl.) Bl.

E

ECHINOCHLOA P. Beauv. - Cockspur - Poaceae (Gramineae)

 **Echinochloa pyramidale** (Lam.) Hitchc. et Chase

Common Names ► antelope grass, limpopo grass; *French*: antilope à herbe, antilope de graminées; *German*: Antilopengras, Pyramiden-Hühnergras

Usage ► condiment

Parts Used ► plant (grass)

Distribution ► tropical Africa: Nile, S Niger, Senegal, the Gambia, Nigeria

Note ► Produced as a vegetable salt from the plant ash; substitute for normal salt.

Burkill 2, 1994; Erhardt et al. 2002; Hanelt 2001; Uphof 1968

ECHINOPHORA L. - Apiaceae (Umbelliferae)

 **Echinophora sibthorpiana** (Guss.) Tamasch.

► *Echinophora tenuifolia* L.

 **Echinophora tenuifolia** L.

Synonyms ► *Echiniphora sibthorpiana* (Guss.) Tamasch.

Common Names ► prickly parsnip; *French*: échinophore; *German*: Igelklette, Stacheldolde, *Russian*: koljutschesontitschnik; *Turkish*: çörtük

Usage ► pickling herb (fresh or dried); **product**: essential oil

Parts Used ► leaf, stalk

Distribution ► Balkan, Turkey (Anatolia), Iran, Azerbadijan, Armenia, Afghanistan

Baser et al. 1994b; Charalambous 1994; Özcan/Erkman 2001; Özcan et al. 2002

 **Echites malabarica** Lam.

► *Alstonia scholaris* (L.) R.Br.

 **Echites scholaris** L.

► *Alstonia scholaris* (L.) R. Br.

ELAEIS Jacq. - Oil Palm - Arecaceae

 **Elaeis guineensis** Jacq.

Common Names ► African oil palm, tall palm; *French*: palmier à huile; *German*: Afrikanische Ölpalme

Usage ► condiment

Parts Used ► leaf

Distribution ► W, E and C Africa, Angola

Note ► Produced as a vegetable salt from the plant ash; substitute for normal salt.

Erhardt et al. 2000, 2002; Hiller/Welzig 1999; Neuwinger 1999; Täufel et al. 1993; Zeven/de Wet 1982

 Elaeodendron metabelica Loes

➤ *Cassine metabelica* (Loes) Steedman

 Elaeoselinum gummiferum Desf.

➤ *Margotia gummifera* (Desf.) Lange

ELETTARIA Maton - Cardamom - Zingiberaceae

 Elettaria cardamomum (L.) Maton

Synonyms ▶ *Alpinia cardamomum* Roxb., *Amomum cardamomum* L., *Amomum racemosum* Lam., *Cardamomum officinale* Salisb., *Elettaria repens* (Sonn.) Baill.

Common Names ▶ cardamom, small cardamom, Chester cardamom; *Arabic*: hab hab, heel; *Chinese*: dou kou hua, pai tou kou; *Dutch*: kardemomzaad; *French*: cardamome, cardamomier; *German*: Echter Kardamom, Malabar-Kardamom; *Hindi*: chotielachi; *Indonesian*: kapulaga; *Italian*: cardamomo (frutti); *Japanese*: karudoman; *Korean*: sodugu; *Malaysian*: buah pelaga; *Pilipino*: luk grawan; *Portuguese*: cardamomo; *Russian*: kardamom; *Sanskrit*: ela, upakunchika; *Slovenian*: kardamóm; *Spanish*: cardamomo

Usage ▶ spice; **product**: essential oil (cardamom oil)

Parts Used ▶ fruit (capsule), seed

Distribution ▶ S India, Sri Lanka, SE Asia

Note ▶ The seeds are sold (in London) as camphor seeds.

Berger 3, 1952; Berger 1958, 1964/65; Bois 1934; Boisvert/Hubert 2000; Bournot 1968; Burkill 5, 2000; Craze 2002; Dalby 2000; Davidson 1999; Domrös 1973; Dudtschenko et al. 1989; Duke et al. 2003; Farrell 1985; Ferrão 1992; Gopalakrishnan/Narayanan 1991; Govindarajan et al. 1982b; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hiller/Welzig 1999; Hoppe 1949; Kataoka et al. 1986; Maistre 1964; Matthies 1989; Melchior/Kastner 1974; Molegode 1938; Morris/Mackley 1999; Noleau et al. 1987; Norman 1991; Overdieck 1992; Peter 2001; Pochljobkin 1974, 1977; Pruthi 1976;

Pschyrembel 1998; Richard 1987; Rievals/Mansour 1974; Rosengarten 1969; Roth/Kormann 1997; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Shaban et al. 1987; Sharma 2003; Shiva et al. 2002; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tschirch 1892; Ophof 1968; Vogt 1998; Wyk et al. 2004; Zeven/de Wet 1982

 Elettaria cardamom (L.) Maton var. *major* (Sm.) Thwaites

➤ *Elattaria major* Sm.

 Elettaria cardamom (L.) Maton var. *minuscula* Burkill

Common Names ▶ Malabar cardamom; *German*: Malabar-Kardamom

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ only cultivated

Guzman/Siemonsma 1999; ISO-Standard 1980

 Elettaria major Sm.

Synonyms ▶ *Elettaria cardamom* Maton var. *major* (Sm.) Thwaites

Common Names ▶ Ceylon cardamom, greater oblong cardamom, long cardamom, wild cardamom; *Arabic*: hab hal; *French*: cardamome; *German*: Ceylon-Kardamom, Langer Kardamom; *Italian*: cardamomo; *Russian*: cardamome; *Spanish*: cardamomo

Usage ▶ spice; **product**: essential oil

Parts Used ▶ fruit, seed

Distribution ▶ Sri Lanka

Note ▶ The seeds are seldom used as a spice. The species in *Elettaria cardamom* (L.) Maton are falsified.

Boir 1934; Domrös 1973; Hanelt 2001; Matthies 1989; Overdieck 1992b; Peter 2001; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Wealth of India 3, 1952

 Elettaria repens (Sonn.) Baill.

➤ *Elettaria cardamomum* (L.) Maton



■ **Elettaria cardamomum**: a flowering, b fruiting

 Elettaria solaris Blume

➤ *Etlingera solaris* (Blume) R.M. Smith

ELSHOLTZIA Willd. - Elsholtzia - Lamiaceae (Labiatae)

 Elsholtzia ciliata (Thunb.) Hyl.

Synonyms ► *Elsholtzia cristata* Will., *Elsholtzia patrini* (Lepecin) Garcke

Common Names ► common elsholtzia; Vietnamese balm; *Chinese*: hsiang-ju, xiang ru; *German*: Echte Kamm-Minze, Elsholtzie, Vietnamesische Melisse, Würzminze; *Japanese*: naginata-koju; *Korean*: hyangyu; *Russian*: mjata prjanaja, ili el'sgol'zija, grebentschaja schandra, prjanyj issop; *Vietnamese*: gia to

Usage ► spice, specially for fish

Parts Used ► herb

Distribution ► C Asia: former Soviet Union, China, Taiwan, Japan, Korea; native in Europe

Dudtschenko et al. 1989; Górski et al. 1991; Kobold et al. 1987; Mikus/Schaser 1995; Pochljobkin 1974, 1977; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Teubner 2001; Teuscher 2003; Zeven/de Wet 1982

 Elsholtzia cristata Will

➤ *Elsholtzia ciliata* (Thunb.) Hyl.

 Elsholtzia integrifolia Benth.

➤ *Nepeta tenuifolia* Benth.

 Elsholtzia monostachys H. Lévl. et Van.

➤ *Agastache rugosa* (Fisch. et C.A. Mey.) Kuntze

 Elsholtzia patrini (Lepecin) Garcke

➤ *Elsholtzia ciliata* (Thunb.) Hyl.

 Elsholtzia stauntonii Benth.

Common Names ► mint bush, mint shrub, Staunton elsholtzia; *Chinese*: mu xiang ru; *German*: Chinesische Kamm-Minze, Chinesischer Gewürzstrauch

Usage ► spice

Parts Used ► leaf

Distribution ► C China: Ganru, Hebei, Henan, Shaanxi, Shanxi

Erhardt et al. 2000, 2002; Hanelt 2001; Small 1997; Teuscher 2003; Wiersema/León 1999

EMBELIA Burm. f. - Myrsinaceae

 Embelia philippinensis A. DC.

Synonyms ► *Rhamnus lando* Llanos, *Ribesoides philippense* O. Kuntze, *Samara philippinensis* Vidal.

Common Names ► woody vine; *Pilipino*: dikai, lando, pongpong

Usage ► flavoring (for fish, meat, vegetables) and gives a sour taste to soup

Parts Used ► leaf

Distribution ► Philippines

Guzman/Siemonsma 1999; Oyen/Dung 1999; Uphof 1968

EMILIA Cass. - Asteraceae (Compositae)

E

Emilia coccinea (Sims) G. Don

► *Emilia javanica* (Burm.f.) C.B. Rob.

Emilia javanica (Burm.f.) C.B. Rob.

Synonyms ► *Emilia coccinea* (Sims) G. Don., *Hieracium javanicum* Burm.f.

Common Names ► tassel flower, Flora's paintbrush;
French: goutte de sang; *German*: Javanische Trodelblume

Usage ► spice

Parts Used ► leaf, root

Distribution ► tropical Africa, India, S China, Java, E Africa and other tropical countries, in Poland cultivated and sometimes naturalized elsewhere

Note ► The taste is a delicate one, slightly acid with a touch of bitterness.

Erhardt et al. 2000, 2002; Hanelt 2001; Neuwinger 1999; Schultze-Motel 1986

ENDOSTEMON N.E. Br. - Lamiaceae (Labiatae)

Endostemon tereticaulis (Poir) M. Ashby

Common Names ► *German*: Walzenförmiges Endestemonkraut

Usage ► condiment, flavoring

Parts Used ► herb

Distribution ► W Africa: Ghana, Senegal, Somalia, Uganda

Note ► The aromatic herb for meat in cooking.

Burkill 3, 1995

Enteromorpha compressa (L.) Grev.

► *Ulva compressa* L.

ENYDRA Lour. - Asteraeae (Compositae)

Enydra fluctuans Lour.

Synonyms ► *Cryphiospermum repens* Pal.

Usage ► spice

Parts Used ► leaf, stak

Distribution ► C, E Africa, India, SE Asia, cultivated in Java, Malaysia, Cambodia

Hanelt 2001; Schultze-Motel 1986; Uphof 1968

EREMOCHARIS Philippi - Apiaceae (Umbelliferae)

Eremocharis radiata (Wolff.) Johnston

Common Names ► *German*: Strahliges Eremochariskraut

Usage ► pot-herb (for soups)

Parts Used ► herb

Distribution ► S America: Andes of N Chile and Peru

ERODIUM L'Herit ex Ait - Heron's Bill, Stork's Bill - Geraniaceae

Erodium moschatum (L.) L'Hérit. ex Ait.

Synonyms ► *Geranium moschatum* L.

Common Names ► common Heron's bill, musky Stork's bill, musk clover, white stem filaree; *French*: érodion; *German*: Moschus-Reiherschnabel; *Russian*: aistnik, shuravel'nik

Usage ► spice (rarely)

Parts Used ► herb

Distribution ► N, C and S Europe: Iberia, France, from Russia to Siberia, N, S America, E, S Africa, Australia, New Zealand, elsewhere native

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Schultze-Motel 1986; Seidemann 1993c; Zeven/de Wet 1982

ERUCA Mill. - Rocket Salad - Brassicaceae (Cruciferae)

 **Eruca foetida** Moench.

➤ *Eruca sativa* Mill.

 **Eruca sativa** Mill.

Synonyms ▶ *Brassica eruca* L., *Eruca foetida* Moench., *Eruca vesicaria* (L.) Cav. ssp. *sativa* (Mill.) Thell.

Common Names ▶ garden or Roman rocket, rocket salad, rocket; **Dutch**: gekweckte eruca, tuimeruca; **French**: eruca, roquette, roquette des jardins; **German**: Jamba-Raps, Ölrauke, Persischer Senf, Ruke, Senfrauke; **Hindi**: taramira; **India**: taribed (Kashmir); **Italian**: eruca, rucola commune, ruchetta, ruca; **Japanese**: kibana-suzushiro, roketta; **Portuguese**: eruca, rúcula, pinchao; **Russian**: min-dau, skuka posewnaja; **Sanskrit**: bhutaghna, daradharsha; **Spanish**: eruca, roqueta común

Usage ▶ condiment; **product** of mustard

Parts Used ▶ leaf, seed

Distribution ▶ Mediterranean regions: Spain, Greece, N and NE Africa, temperate Asia, India, Afghanistan, native elsewhere

Aichele/Schwegler 3, 1995; Bärtels 1997; Bremness 2001; Cheers 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Kays/Dias 1995; Melchior/Kastner 1974; Miazawa et al. 2002; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982

 **Eruca vesicaria** (L.) Cav. **sspec. sativa** (Mill.) Thell.

➤ *Eruca sativa* Mill.

ERYNGIUM L. - Sea Holly - Apiaceae (Umbelliferae)

 **Eryngium antihystericum** Rottl.

➤ *Eryngium foetidum* L.

 **Eryngium foetidum** L.

Synonyms ▶ *Eryngium antihystericum* Rottl.

Common Names ▶ culantro, eryngo, foreign coriander, sawtooth, sawtooth coriander, false coriander, fitweed, Mexican coriander; **Chinese**: jia yuan qian; **Cuban**: culantro, cimarrón; **French**: azier la fièvre, panicaud fétide, chardon étoilé, coulante; **German**: Langer Koriander, Stinkender Mannstreu, Stinkdistel; **Laos**: hom chin; **Malaysian**: daun ketumbar jawa; **Nicaragua**: culantrillo; **Portuguese**: coentro, coentro-bravo, coentro-da-colônia, coentro-da-caboclo; **Spanish**: cilantro, orégano de Cartagena; **Thai**: phak chee farang, pakchi farang, hom-pom-kula; **Vietnamese**: rau ngo gai, ngo tay, bat nga

Usage ▶ spice, condiment (flavoring)

Parts Used ▶ leaf, root

Distribution ▶ tropical and subtropical M, S America: Mexico, Cuba, Brazil, also cultivated; introduced and cultivated in tropical Africa (Liberia) and E Asia: Cambodia and Thailand

Note ▶ Strictly speaking, the name “cilantro” refers to sawtooth coriander, but is often used for leaves of *Coriandrum sativum* L.

Aedo et al. 2001; Arora/Pandey 1996; Davidson 1999; Duke et al. 2003; Guzman/Siemonsma 1999; Koolhaas 1932; Kuebal/Tucker 1988; Leclercq et al. 1992; Mors et al. 2000; Lück 2000; Ogle et al. 2003; Roig 1974; Sankat/Maharaj 1994, 1996; Schultze-Motel 1986; Small 1997; Tucker 1986; Uphof 1968; Vidal 1964; Villamar et al. 1994; Wong et al. 1994

 **Erysimum barbarea** L.

➤ *Barbarea vulgaris* R.Br.

 **Erysimum vernum** Mill.

➤ *Baberea verna* (Mill.) Aschers.

**Erythraea centaurum auct.**➤ *Centaurium erythraea* Raf.**ERYTHRINA L. – Coral Tree -
Fabaceae (Leguminosae)****Erythrina variegata L. var. orientalis (L.) Merr.****Synonyms** ▶ *Erythrina indica* L., *Erythrina variegata* L.**Common Names** ▶ Indian coral tree, moochy wood, tigeris claw; *Chinese*: hai tong pi; *German*: Indischer Korallenbaum; *Hindi*: chadap, mandara; *India*: mimbataru, mandalia, paribhadra; *Indonesian*: dadap belang, kalayana murikku; *Japanese*: deigo, diigu; *Malaysian*: chengkering, dedap batik; *Pilipino*: dap dap, karapdap, kabrab; *Sanskrit*: mandar, parijata; *Thai*: thong laang laai; *Vietnamese*: hai dong, vòng nem**Usage** ▶ pot-herb (Andaman Islands)**Parts Used** ▶ leaf, young shoot**Distribution** ▶ India: Andaman Islands; China, Malaysia, Philippines, Polynesia, Taiwan, Tanzania

Arora/Pandey 1996; Engle/Phummai 2000; Erhardt et al. 2000; Hager 2001; Kottegoda 1994; Quattrocchi 1999; Ratsch 1998; Schultze-Motel 1986; Sharma 2993

**Erythrochilus indicus Reinw. ex Bl.**➤ *Claoxylon indicum* (Reinw. ex Bl.) Hassk.**ERYTHROCOCCA Benth. -
Euphorbiaceae****Erythrococca atrovierens (Pax) Prain****Synonyms** ▶ *Athroandra atrovirens* Pax et K. Hoffm., *Erythrococca flaccida* (Pax) Prain, *Erythrococca olearaceae* (Prain) Prain**Common Names** ▶ *Congo, Zaire*: mascha, bindi dikil; *Ghana*: forowa, gyigyam; *Liberia*: bu yiddi pulu; *Senegal*: mbuhur mbéré; *Sierra Leone*: budelemi**Usage** ▶ spice**Parts Used** ▶ young leaf**Distribution** ▶ tropical Africa: cultivated in Congo and Zaire

Burkill 2, 1994; Hanelt 2001; Schultze-Motel 1986; Radcliff-Smith 1987

**Erythrococca flaccida (Pax) Prain**➤ *Erythrococca atrovierens* (Pax) Prain**Erythrococca olearaceae (Prain) Prain**➤ *Erythrococca atrovierens* (Pax) Prain**ESCOBEDIA Ruiz et Pav. -
Scrophulariaceae****Escobedia scabrifolia Ruiz et Pav.****Common Names** ▶ saffron of Andes, saffron root; *Columbia*: azafrán, azafrán de raiz; *German*: Anden-Safran, Eskobedie; *Peru*: azafrán de los Andes, azafrán de montaña, palillo**Usage** ▶ spice (saffron-like)**Parts Used** ▶ root**Distribution** ▶ Latin America: Upper Andes: Peru, Colombia, Venezuela

Davidson 1999; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Williams 1970

**ETLINGERA Giseke - Torch Ginger -
Zingiberaceae****Etilingera elatior (Jack) R.M. Sm. ■****Synonyms** ▶ *Alpinia eliator* Jack, *Alpinia speciosa* D. Dietr., *Alpinia speciosa* (Wendl.) K. Schum., *Nicolaia elatior* (Jack) Horan, *Phaeomeria magnifica* (Rosc.) K. Schum.**Common Names** ▶ torch ginger, Philippine wax flower; *French*: sceptre de l'empereur; *German*: Malayi-



■ **Etlingera eliator**, flowering

scher Fackelingwer, Heller Galgant, Kaiserzepter; *Indonesian*: combrang, honje (Sunda Island); *Javanese*: kěchumbrang, kecombrang, tēpus kampong, petikale; *Malaysian*: bunga kantan, bunga siantan; ubud udat; *Spanish*: antorcha, boca de dragón; *Thai*: kaalaa

Usage ► pot-herb and condiment (curries)

Parts Used ► floral bud, herb

Distribution ► Malaysia to Polynesia and Australia, Thailand, Indochina, China, Indonesia and Thailand also cultivated as an ornamental plant. Cultivated in Mexico

Cheers 1997; Duke et al. 2003; Erhardt et al. 2000, 2002; Guzman/Siemonsma 1999; Larsen et al. 1999; Moore 1962; Oyen/Dung 1999; Schultze-Motel 1986; Small 1997; Warren 1998; Wong 1999; Zeven/de Wet 1982

 Etlingera hemisphaerica (Bl.) R.M. Sm.

Synonyms ► *Nicolae hemisphaerica* (Bl.) Horan.

Usage ► condiment

Parts Used ► inflorescence

Distribution ► Sumatra, Java; in Java also cultivated

Dung 1999; Hanelt 2001; Larsen et al. 1999; Ochse et al. 1931; Schultze-Motel 1986; Wong 1999

 Etlingera rosea Burt et R.M. Sm.

Synonyms ► *Amomum roseum* K. Schum.,

Common Names ► *Indonesian*: galoba papua, potmepini, gitipi tana (Moluccas)

Usage ► condiment (fish)

Parts Used ► aril

Distribution ► Indonesia

Guzman/Siemonsma 1999; Moore 1962

 Etlingera solaris (Bl.) R.M. Smith

Synonyms ► *Elettaria solaris* Blume, *Nicolaia solaris* (Bl.) Horan.

Common Names ► *Indonesian*: honje laka, honje warak

Usage ► a sour condiment

Parts Used ► fruit

Distribution ► Indonesia (Java)

Guzman/Siemonsma 1999; Moore 1962; Oyen/Dung 1999

 Etlingera walang (Blume) R.M. Sm.

Synonyms ► *Achasma walang* (Bl.) Val., *Amomum walang* (Bl.) Val., *Donacodes walang* Bl.

Common Names ► *Indonesian* (Java): walang, tepus walang

Usage ► spice

Parts Used ► leaf

Distribution ► Indonesia (W Java), also cultivated

Burkill 1966; Guzman/Siemonsma 1999; Hanelt 2001; Moore 1962

EUCALYPTUS L'Hér. – Gum - Myrtaceae

 Eucalyptus amygdalina Labill.

Synonyms ► *Eucalyptus salicifolia* Cav.

Common Names ► black peppermint, peppermint tree,

willowleaf eucalyptus; *German*: Pfefferminzbaum
Schwarze Pfefferminze

Usage ► flavoring; **product**: essential oil

Parts Used ► leaf

Distribution ► Tasmania; cultivated in Chile, Zaire; former Soviet Union: W Georgia

Erhardt et al. 2002; Hanelt 2001; Uphof 1968; Zeven/de Wet 1982

E



Eucalyptus bridgesiana Baker

Common Names ► apple box, apple gum, apple-scented eucalyptus, but but; *German*: Apfel-Eukalyptus

Usage ► flavoring

Parts Used ► leaf

Distribution ► Australia



Eucalyptus citriodora Hook.

Common Names ► lemon eucalyptus, lemon-scented gum; *German*: Zitronen-Eukalyptus

Usage ► flavoring; **product**: essential oil

Parts Used ► leaf

Distribution ► Australia: Queensland; S America: Brazil

Cheers 1997; Kumar 2001; Roth/Kormann 1997; Schönfelder 2001



Eucalyptus dives Schauer

Common Names ► broad leaved peppermint-tree

Usage ► flavoring

Parts Used ► leaf

Distribution ► SE Australia, NS Wales, native in Zaire and S Africa

Note ► The essential oil has a high content of phellandrene and piperitone.

Erhardt et al. 2002; Hanelt 2001



Eucalyptus globulus Labill.

Common Names ► blue gum tree, fever tree, Tasmanian blue gum; *Arabic*: calibtus, hafor; *Chinese*: an ye; *French*: eucalyptus bleu, gommier bleu; *German*: Blaugummibaum, Fieberheilbaum, Kugeliger Eu-

kalyptus; *Italian*: eucalipto; *Japanese*: yūkari-noki; *Russian*: eukaljpt; *Spanish*: eucalipto azul

Usage ► flavoring; **product**: essential oil (eucalyptus oil) and 1, 8 cineole (60–80%)

Parts Used ► leaf

Distribution ► SE Australia (Victoria), Tasmania, native in W America from California to Chile

Erhardt et al. 2000, 2002; Guzman/Siemmonsma 1999; Hanelt 2001; Hoppe 1949; Kumar 2001; Moors/Rizzini 1966; Rehm/Espig 1984; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Shiva et al. 2002; Uphof 1968; Wiersema/León 1966; Wyk et al. 2004



Eucalyptus macarthurii Daene et Maiden

Usage ► flavoring ; **product**: essential oil

Parts Used ► leaf

Distribution ► Australia: NS Wales

Note ► The essential oil has a high content of geranyl acetate (44–56%) and eudesmol (28–40%).

Erhardt et al. 2002; Hanelt 2001



Eucalyptus salicifolia Cav.

► *Eucalyptus amygdalina* Labill.



Eucalyptus staigeriana F. Muell. ex F.M. Bailey

Common Names ► lemon-scented ironbark

Usage ► flavoring; **product**: essential oil

Parts Used ► leaf

Distribution ► NE Australia (Queensland); cultivated in Brazil, Guatemala, Zaire, Indonesia (Java), Seychelles

Erhardt et al. 2000, 2002; Hanelt 2001; Kumar 2001; Mors/Rizzini 1966; Rehm/Espig 1984; Schultze-Motel 1986; Uphof 1968

EUCLEA L. - Ebenaceae

Euclea divinorum Hiern.

Common Names ► magic guarri

Usage ► condiment; **product**: as vegetable salt of the plant ash

Parts Used ► plant

Distribution ► S Africa

Note ► The plant ash is a substitute for edible salt.

Rosenkranz 2002

Eugenia aromatica (L.) Baill.

► *Syzygium aromaticum* (L.) Merr. Et L.M. Perry

Eugenia balsamea Ridley

► *Syzygium polyanthum* (Wight) Walpers

Eugenia caryophyllata Thunb.

► *Syzygium aromaticum* (L.) Merr. et L.M. Perry

Eugenia caryophyllus (Spreng.) Bullock ex S.G. Harrison

► *Syzygium aromaticum* (L.) Merr. et L.M. Perry

Eugenia nitida Duthie

► *Syzygium polyanthum* (Wight) Walpers

Eugenia pimenta DC.

► *Pimenta dioica* (L.) Merr.

Eugenia polyantha Wight

► *Syzygium polyanthum* (Wight) Walpers

Eugenia tabasco G. Don

► *Pimenta dioica* (L.) Merr. var. *tabasco*

EUPATORIUM L. - Asteraceae (Compositae)

Eupatorium cannabinum L.

Common Names ► bornaset, hemp agrimony, hemp weed, American thoroughwort (herb); *French*: eupatoire chanvrine, chanvre d'eau; *German*: Gewöhnlicher Wasserdost; Grundheil, Kunigundenkraut, Wasserhanf; *Italian*: canapa d'acqua; *Russian*: sedatsch, poskonnik konoplewyj; *Spanish*: eupatorio

Usage ► spice

Parts Used ► leaf, herb

Distribution ► Europe, Turkey, Lebanon, Israel, Caucasus, Iran(?), Himalayas, C Asia, N Africa: Morocco, Algeria

Aichele/Schwegler 4, 1995; Berger 4, 1954; Cheers 1997; Erhardt et al. 2000, 2002; Erichsen-Brown 1989; Hager 4, 1992; 5, 1993; Hiller/Welzig 1999; Hoppe 1949; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Woerdenberg et al. 1991; Zygadlo et al. 1996

Eupatorium chinense L.

Synonyms ► *Bupthalmum oleraceum* Lour., *Eupatorium japonicum* Thunb. ex Murray

Common Names ► Chinesian hemp agrimony; *Chinese*: chenggan cao; *German*: Chinesischer Wasserdost; *Indonesian*: teklan gede; *Pilipino*: apanang-gubat

Usage ► seasoning, condiment especially for fish (in Annam)

Parts Used ► young leaf

Distribution ► Indochina, China, Korea, Taiwan, Japan, Philippines, also cultivated

Guzman/Siemonsma 1999; Uphof 1968

**Eupatorium dalea L.**

Usage ▶ substitute for vanilla

Parts Used ▶ herb

Distribution ▶ West Indies

Note ▶ The herb is strongly cumarin-scented.

Uphof 1968

E**Eupatorium hemipteropodium Robinson**

Common Names ▶ *Mexico*: chioplé

Usage ▶ flavoring of tobacco

Parts Used ▶ leaf

Distribution ▶ Mexico: Yucutan

Hanelt 2001; Schultze-Motel 1986

**Eupatorium japonicum Thunb. ex Murray**

▶ *Eupatorium chinense L.*

**Eupatorium parviflorum Aubl.**

▶ *Mikania perviflora (Aubl.) Karst*

**Eupatorium triplinerve Vahl**

Common Names ▶ pool root, white snakeroot; *Bengalia*: ayapana

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ tropical America, native India, Java, Mauritius; Brazil cultivated

Haelt 2001; Schultze-Motel 1986

EUPHORBIA L. - Spurge - Euphorbiaceae**Euphorbia hirta L.**

Synonyms ▶ *Euphorbia pilulifera L.*

Common Names ▶ bristly spurge, cat's hair, garden spurge;

German: Borstige Wolfsmilch, Borstige Euphorbie, Pacharispflanze; *Russian*: ostschetinennij moltschaj

Usage ▶ seasoning

Parts Used ▶ leaf

Distribution ▶ tropical Africa: Benin, Cameroon, Ghana, Liberia, Madagascar, Mali, Nigeria, Senegal, Somalia, Tanzania, Zaire

Aedo et al. 2001; Ajao et al. 1985; Ayensu 1978; Blanc/de Saqui-Sannes 1972; Evans/Kinghorn 1975; Neuwinger 1998; Täufel et al. 1993; Villamar et al. 1994; Yoshida et al. 1990

**Euphorbia lathyris L.**

Common Names ▶ caper spurge, gopher plant, mole plant, myrtle spurge; *Chinese*: hsü sui tzu, qian zi; *French*: euphorbe épurge; *German*: Spring-Wolfsmilch, Kreuzblättrige Wolfsmilch; *Italian*: escapuzza, catapuzia; *Russian*: molotschaj-colnzerljad

Usage ▶ substitute for capers (*Capparis spinosa L.*) when not available

Parts Used ▶ unripened fruits

Distribution ▶ C, EC Europe, France, Iberia, Turkey, Caucasus, N America, CS America, China

Note ▶ The fruits are poisonous.

Erhardt 2000; Hanelt 2001; NICBP 1987; Schultze-Motel 1986; Staesche 1972; Uphof 1968

**Euphorbia pulcherrima Willd. ex Klotzsch**

Synonyms ▶ *Poinsettia pulcherrima* (Willd ex Klotzsch) R. Grah.

Common Names ▶ Christmas flower, dazzle, poinsettia; *Dutch*: poinsettia; *French*: euphorbe écarlate, poinsettia, étoile de Noël, *German*: Poinsettie, Weihnachtsstern; *Indonesian*: buga natal, paitan, pohon merah; *Javanese*: godong, ratjoon, ratjoonan; *Malaysian*: pohon merah, puring merah; *Pilipino*: pascuas; *Spanish*: flor de Pascua, flor de Santa Catarina; *Thai*: kismas; *Vietnamese*: trang nguyên

Usage ▶ seasoning

Parts Used ▶ leaf

Distribution ► in tropical countries of C America (Mexico), Africa and Asia; widely cultivated

Burkill 1965; Burkill 3, 1995; Engel/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Villamar et al. 1994; Wealth of India 3, 1952

EUPHRASIA L. - Eyebright - Scrophulariaceae

Euphrasia officinalis L.

Synonyms ► *Euphrasia rostkoviana* Hayne

Common Names ► eufrasia, eyebright; *French*: casse-lunette, euphrase officinale, luminet, brise lunettes; *German*: Großblütiger Augentrost, Gewöhnlicher Augentrost, Wiesenaugentrost; *Italian*: eufrasia, erba degli occhi; *Russian*: otschnika aptetschnaja; *Spanish*: eufrasia

Parts Used ► pot-herb

Distribution ► C Europe, Turkey to W Siberia

Note ► In England the herb was used in the Middle Ages to spice soups.

Aichele/Schwegler 4, 1995; Berger 4, 1954; Bilgri/Adam 2000; Clair 1961; Erhardt et al. 2002; Hiller/Welzig 1999; Hohmann et al. 2001; Neidhardt 1947; Newall et al. 1996; Salama/Sticher 1974; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Sticher/Salam 1981; Uphof 1968; Wyk et al. 2004

Euphrasia rostkoviana Hayne

► *Euphrasia officinalis* L. ssp. *rostkoviana* (Hayne) Towns

Eutrema wasabi (Siebold) Maxim.

► *Wasabi japonica* (Miq.) Matsum

EVODIA Lam. - Rutaceae

Evodia amboinensis Merr.

Common Names ► *Indonesian*: gandaroora besar

Usage ► flavoring

Parts Used ► bark

Distribution ► Indonesia, especially Ambon

Note ► The bark is used as incense among the natives.

Uphof 1968

Evodia lunu-ankenda (Gaertn.) Merr.

Synonyms ► *Evodia roxburghiana* Benth.

Common Names ► *Hindi*: kanalei, midaumabaphang, vanashempaga

Usage ► flavoring

Parts Used ► leaf

Distribution ► India: hills of E Himalayas, Deccan, Andaman Islands

Arora/Pandey 1996; Uphof 1968

Evodia roxburghiana Benth.

► *Evodia lunu-ankenda* Merr.

F

**FAGARA L. -
Rutaceae** **Fagara arenaria** Engl.

Usage ► flavoring (liqueur “Paratis”)

Parts Used ► leaf

Distribution ► Brazil

Machado 1949

 Fagara avicennae Lamk

► *Zanthoxylum avicenna* (Lamk) DC.

 Fagara macrophylla Engl.

► *Fagara zanthoxyloides* Lam.

 Fagara rhetsa Roxb.

► *Zanthoxylum rhetsa* (Roxb.) DC.

 Fagara senegalensis DC.

► *Fagara zanthoxyloides* Lam.

 Fagara tessmannii Engl.

► *Zanthoxylum tessmannii* (Engl.) Ayator

 Fagara zanthoxyloides Lam.

Synonyms ► *Fagare macrophylla* Engl., *Zanthoxylum gillettii* (de Willd.) Waterm., *Zanthoxylum senegalensis* DC.

Common Names ► candle wood, fagara jaune, Senegal prickly ash; *German*: Senegalpfeffer, Senegal-Gelbholz; *Ghana*: faskori, kanfu, puom

Usage ► spice, applied like pepper for meat and sauces

Parts Used ► seed, leaf, bark

Distribution ► W Africa: Ghana, Guinea, Nigeria, Senegal

Note ► The fruit has a pepper scent and is inedible.

Ayensu 1978; Burkill 4, 1997; Chevalier 1957; Hanelt 2001; Irvoine 1961; Neuwinger 1994, 1999; Schultze-Motel 1986; Teuscher 2003

**FEDIA Gaertn. African Valerian -
Valerianaceae** **Fedia cornucopiae** (L.) Gaertn.

Common Names ► African valerian, horn of plenty; *French*: corne d'abondance; *German*: Afrikanischer Baldrian

Usage ► pot-herb

Parts Used ► leaf

Distribution ► Europe: Iberia, France, Greece, Crete; N Africa

Erhardt et al. 2002; Uphof 1968

FERULA L. - Giant Fennel - Apiaceae (Umbelliferae)

F

Ferula assa-foetida L.

Synonyms ► *Ferula narthex* L., *Ferula rubicaulis* Boiss., *Ferula pseudalliacea* Rech.f., *Narthex polakii* Staph et Wettst.

Common Names ► asafetida, asant, devil's dung, food of gods; *Arabic*: andjudaan, haltit; *Chinese*: a wei; *Dutch*: duivelsdreck; *French*: ase fétide, asa-foëtida, férule persique; *German*: Stinkasant, Teufelsdreck; *India*: hing, hingui; *Italian*: assafetida; *Portuguese*: assa fetida; *Russian*: ferula wonjutschaja, cmola wonjutschaja, durnoj dux, asmargok, ching; *Slovenian*: ferul'a čertova; *Spanish*: asa fétida;

Usage ► spice

Parts Used ► the gum from the stem and the root

Distribution ► C Asia, Iran, Afghanistan

Note ► The gum has a very penetrating garlic-like odor and taste. At *Silphion* or *Laser pithium* or *silphium des anciens* concerns this plant. The German botanist Engelbert Kaempfer gave the first description and illustration of the asafetida plant in 1712.

Appendino et al. 1994; Bois 1934; Boisvert/Huber 2000; Bordia/Arora 1975; Chamberlain 1977; Craze 2002; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Guzman/Siemonsma 1999; Hanelt 2001; Hepper 1992; Hoppe 1949; Kajmoto et al. 1989; Lück 2000; Martinetz/Lohs 1987, 1988; Morris/Mackley 1999; Nassar 1994; Newall et al. 1996; Norman 1991; Pochljobkin 1974, 1977; Pruthi 1976; Rajanikanth et al. 1984; Rechinger 1987; Samimi/Unger 1979; Schultze-Motel 1986; Seidemann 1992b; 1993c; Seidemann/Siebert 1987; Siewek 1990; Strantz 1909; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Wyk et al. 2004

Ferula foetida (Bunge) Regel

Common Names ► fetida; *French*: fétide; *German*: Stinkasant

Usage ► spice

Parts Used ► the gum from the stem and the root

Distribution ► C Asia

Note ► The gum has a very penetrating garlic-like odor and taste.

Chamberlain 1977; Erhardt et al. 2000, 2002; Hanelt 2001; Hepper 1992; Rechinger 1987; Schultze-Motel 1986; Seidemann/Siebert 1987; Uphof 1968; Wealth of India 4, 1956

Ferula galaniflua Boiss. et Buhse

► *Ferula gummosa* Boiss.

Ferula gummosa Boiss.

Synonyms ► *Ferula galbaniflua* Boiss. et Buhse

Common Names ► *German*: Galbanum, Galbanum-Gummi, Gummi-Asant; Mutterharz, Steckenkraut

Usage ► spice

Parts Used ► gum from stem

Distribution ► N Iran, C Asia: Afghanistan, Turkestan

Note ► The plant is the ancient 'slphion'(?)

► *Ferula asa-foetida* L.

Erhardt et al. 2002; Hepper 1992; Hoppe 1949; Mabberly 1997

Ferula narthex Boiss.

Common Names ► stinck fetida; *German*: Stab-Asant

Usage ► spice

Parts Used ► gum from the stem and the root

Distribution ► NW Himalayas

Erhardt et al. 2002; Hepper 1992; Sharma 2003; Siewek 1990 Uphof 1968

Ferula narthex L.

► *Ferula assa-foetida* L.

Ferula pseudalliacea Rech.f.

► *Ferula assa-foetida* L.

**Ferula rubicaulis** Boiss.

➤ *Ferula assa-foetida* L.

FIBRAUREA Lour. -
Menispermaceae**Fibraurea recisa** Pierre

Common Names ▶ tall woody vine; *Indochina*: dây vàng giang, nam hoàng liên

Usage ▶ flavoring; **product**: bitter liqueurs

Parts Used ▶ root

Distribution ▶ Indochina

Note ▶ The bitter root is a substitute for gention.

Mabberly 1997; Uphof 1968

**Ficaria verna** Huds

➤ *Ranunculus ficaria* L.

FILIPENDULA Mill. - Dropwort,
Meadow Sweet - Rosaceae**Filipendula ulmaria** (L.) Maxim.

Synonyms ▶ *Spirea ulmaria* L.

Common Names ▶ dropwort, meadow sweet, queen of the meadow; *French*: reine des prés, spirée ulmaire; *German*: Echtes Mädesüß, Sumpfspirea; *Italian*: filipendule, olmaria, regina dei prati; *Russian*: labasnik sestilepestnij, tawolga, sabasnik; *Spanish*: barba, reina de los prados, reina de cabra ulmaria

Usage ▶ flavoring (various beverages); **product**: essential oil

Parts Used ▶ flower

Distribution ▶ Europe, Caucasus, W and E Siberia, N Africa, native in N America

Berger 1, 1949; 4, 1954; Bilgri/Adam 2000; Bremness 2001; Cheers 1997; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hiller/Welzig 1999; Hoppe 1949; Lindeman et al. 1982; Newall et al. 1996; Pschy-

rembel 1998; Sanchez-Monge/Parellada 1981; Saifullina/Kozhina 1975; Scheer/Wichtl 1987; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Thieme 1966; Tucker 1986; Uphof 1968; Wyk et al. 2004

FLEMINGIA Roxb. ex Ait. -
Fabaceae (Leguminosae)**Flemingia congesta** Roxb. ex Ait. et Ait.f.

➤ *Flemingia macrophylla* (Willd.) Miq.

**Flemingia macrophylla** (Willd.) Miq.

Synonyms ▶ *Flemingia congesta* Roxb. et Ait. et Ait.f.

Common Names ▶ false saffron; *German*: falscher Safran; *Japanese*: enoki-mame

Usage ▶ seed, sporadically as a saffron substitute

Parts Used ▶ pulverized seed huils

Distribution ▶ SE Asia: tropical India, Africa

Erhardt et al. 2000, 2002; Hiller/Melzig 1999/2000

**Flueggea leucopyrus** Willd.

➤ *Securinega leucopyrus* (Willd.) Muell.-Arg.

FOENICULUM Mill. - Fennel -
Apiaceae (Umbelliferae)**Foeniculum carri** Link

➤ *carrum carri* L.

**Foeniculum dulce** DC. non Mill.

➤ *Foeniculum vulgare* var. *dulce* (DC.) Batt. et Trab.

**Foeniculum officinale** All.

➤ *Foeniculum vulgare* Mill.

 Foeniculum piperitum (Ucria) Sweet

► *Foeniculum vulgare subsp. piperitum* (Ucria) Cout.

 Foeniculum vulgare Mill.

Synonyms ► *Anethum foeniculum* L., *Foeniculum capillaceum* Gilib., *Foeniculum officinale* All.

Common Names ► fennel; *Arabic*: acksoun, razianuj, sciamar, chemar; *Chinese*: shih lo, tzu mo lo, xiao hui xiang; *Dutch*: venkel; *French*: finocchio, fenouil commun; *German*: Fenchel, Bitterfenchel, Gartenfenchel, Gewürzfenchel; *Hindi*: saumphy; *Indonesian*: adas; *Italian*: finocchio; *Javanese*: adas londo; *Japanese*: ui-kyô, uwiichô; *Korean*: hoehyang; *Malayan*: adas pedas, jintan manis; *Pilipino*: haras, anis; *Portuguese*: funcho; *Russian*: fenchel, apotetschnyj ukron; woloschckij ukron; *Sanskrit*: madhurika, misreya; *Slovenian*: fenikel; *Spanish*: finocchio, hinojo; *Thai*: mellet phong karee, thi-anklaep, phakchiduanha, yira

Usage ► spice; condiment: curries; **product**: essential oil

Parts Used ► fruit

Distribution ► Europe, frequent cultivated

Note ► Cultivated: *Foeniculum vulgare* var. *azoricum* (Mill.) Thell.: *German*: Gemüsefenchel, Knollenfenchel, Finocchino

Aichele/Schwegler 3, 1995; Ballarin/Ballarin 1972; Bernath et al. 1996a, b; Berger 3, 1952; Bilia et al. 2002; Bois 1934; Bournot 1968; Bremness 2001; Cheers 1997; Coiciu/Racz (no year); Coelho et al. 2003; Craze 2002; Czygan 1987; Davidson 1999; Dudtschenko et al. 1989; Ehlers et al. 2000; Farrell 1985; Guillen et al. 1994; Gupta et al. 1995; Guzman/Siemonsma 1999; Hager 5, 1993; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hondelmann 2002; Hoppe 1949; Kraus/Hammerschmidt 1980; Leung 1991; Melchior/Kastner 1974; Menard/Lehr 1987; Menghini et al. 1994; Morris/Mackley 1999; Norman 1991; Pank 1996; Pank et al. 2003a, b; Piccaglia/Marotti 2001; Plescher 1997; Pochljobkin 1974, 1977; Pschyrembel 1998; Rosengarten 1969; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tindall 1983; Toth 1967a, b; Tucker 1986; Ubillos 1989; Uphof 1968; Venskutonis et al. 1996a; Villamar et al. 1994; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

 Foeniculum vulgare Mill. ssp. *vulgare* var. *azoricum* (Mill.) Thell.

► *Foeniculum vulgare* Mill.

 Foeniculum vulgare Mill. var. *dulce* (DC.) Batt. et Trab.

Synonyms ► *Foeniculum dulce* DC. non Mill.

Common Names ► sweet fennel, Florence fennel; *Arabic*: bisbas; *Chinese*: tian hui xiang; *Dutch*: knolvenkel; *French*: fenouil à bulbe, fenouil doux; *German*: Süßer Fenchel, Gewürzfenchel; *Italian*: finocchio domestica, finocchio dolce; *Japanese*: furohrensufennelu; *Portuguese*: funcho doce, funcho de Florença, folho; *Russian*: fenchel' ovoschtschnoj; *Spanish*: hinojo dulce, hinojo de Florencia; *Turkish*: tatli rezene, raiyane, irziyan

Usage ► spice; **product**: essential oil

Parts Used ► fruit

Distribution ► Europe, frequently cultivated

Note ► In Germany used with anise, caraway and coriander fruits this is sold as "bread spice".

Bärtels 1997; Hager 5, 1993; Heeger 1956; Hohmann et al. 2001; Parzinger 1996; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Zeve/de Wet 1982

 Foeniculum vulgare Mill. ssp. *piperitum* (Ucria) Cout.

Synonyms ► *Anethum piperitum* Ucria, *Foeniculum piperitum* (Ucria) Sweet, *Meum piperitum* (Ucria) Spreng.

Common Names ► bitter fennel; *French*: fenouil amer; *German*: Bitterfenchel, Eselsfenchel, Pfefferfenchel; *Italian*: finocchio amaro, finocchione; *Spanish*: hinojo amargo

Usage ► spice

Parts Used ► fruit

Distribution ► Europe cultivated

Hager 5, 1993; Heeger 1956; Parzinger 1996; Pschyrembel 1998; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Zeghichi et al. 2003; Zeven/de Wet 1982



Foenum-graecum officinale Moench

➤ *Trigonella foenum-graecum* L.

FORTUNELLA Swingle - Kumquat - Rutaceae



Fortunella crassifolia Swingle

Common Names ▶ large round kumquat; *German*: Dickblättrige Zwergzitrone; *Chinese*: chin tan; *Japanese*: meiwa

Usage ▶ succade (flavoring)

Parts Used ▶ fruit

Distribution ▶ China, Japan; cultivated in Japan, India and USA

Hanelt 2001; Schultze-Motel 1986; Uphof 1968; Zeven/de Wet 1982



Fortunella hindsii (Champ. ex Benth.) Swingle

Synonyms ▶ *Atalantia hindsii* (Champ.) Oliv.

Common Names ▶ Hongkong wild kumquat, Formosan kumquat, Hongkong kumquat; *Chinese*: chin tou; *German*: Kinoto, Kumquat, Limequat, Minizitrone, Zwergzitrone

Usage ▶ succade (flavoring), and it serves as a spice

Parts Used ▶ fruit

Distribution ▶ Hongkong, China: Chekiang, Kwantung; cultivated in China and Japan

Bendel 2002; Erhardt et al. 2002; Hanelt 2001; Hume 1957; Ochse et al. 1961; Schultze-Motel 1986; Seidemann 1993c; Zeven/de Wet 1982



Fortunella japonica (Thunb.) Swingle

Synonyms ▶ *Citrus japonica* Thunb., *Citrus madurensis* Lour.

Common Names ▶ round kumquat, marumi-kumquat, calamondin, musk lime, China orange, golden mandarin; *Chinese*: chin kan, jin gan, szu kai kat; *French*: kumquat; *German*: Japanische Orange,

Goldorange, Kalamondin, Marumi-Kumquat, Zwergorange; *India*: hazara; *Indonesian*: djerook kastoori; *Italian*: kumquat; *Japanese*: marumi, nagami, shikikikat, tonkinkan; *Pilipino*: aldonisis; *Russian*: kinkan, kumkwat; *Spanish*: kumquat redondo; quinoto; *Thai*: kam kat, ma-mao-wan; *Vietnamese*: quat, kim quat

Usage ▶ succade (flavoring), condiment

Parts Used ▶ fruit

Distribution ▶ S China; cultivated: E Asia, Japan, N America, origin in China

Bendel 2002; Cheers 1997; Davidson 1999; Engler/Phummai 2000; Erhardt et al. 2000, 2002; Hanelt 2001; Hume 1975; Pursglove 1968; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Verheij/Coronel 1991; Wealth of India 4, 1956; Zeven/de Wet 1982



Fortunella margarita (Lour.) Swingle

Synonyms ▶ *Citrus margarita* Lour.

Common Names ▶ oval kumquat; *Chinese*: chin chu, chin tsao, luo fou; *German*: Ovale Kumquat, Zwergorange; *Japanese*: nagami, nagu kinkan; *Peru*: naranjilla, tunguas; *Spanish*: kumquat; *Russian*: kin kan

Usage ▶ succade (flavoring)

Parts Used ▶ fruit

Distribution ▶ S China; cultivated: C and S America; West Indies, Sicily, Africa (Ethiopia, Zimbabwe), Hawaii, Malaysia

Davidson 1999; Hanelt 2001; Hume 1957; Pursglove 1968; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wealth of India 4, 1956; Zeven/de Wet 1982



Fortunella polyandra (Ridl.) Tanaka

Synonyms ▶ *Atalantia polyandra* Ridl., *Fortunella swinglei* Tanaka

Common Names ▶ Malayan kumquat, hedge lime; *German*: Malaysische Kumquat, Zwergorange; *Malaysian*: limau pagar; *Spanish*: kumquat malayo; *Thai*: som chit

Usage ▶ succade (flavoring), spice

Parts Used ▶ fruit

Distribution ▶ Malaysia, also cultivated; S China (Hainan), Thailand

Hume 1957; Schultze-Motel 11986; Verheij/Coronel 1991; Wealth of India 4, 1956



Fortunella swinglei *Tanaka*

➤ *Fortunella polyandra* (Ridl.) *Tanaka*

F

G

**Galanga major** *Rumph.*

➤ *Alpinia galanga* (L.) Willd.

**Galega purpurea** (L.) L.

➤ *Tephrosia purpurea* (L.) Pers.

**Galipea officinalis** *Hancock*

➤ *Cusparia febrifuga* *Humb. ex DC.*

GALIUM L. - Bedstraw - Rubiaceae

**Galium odora** *Salisb.*

➤ *Galium odoratum* (L.) Scop.

**Galium odoratum** (L.) Scop.

Synonyms ▶ *Asperula odorata* L., *Galium odora* Salisb.

Common Names ▶ sweet woodruff, woodruff asperule;

Dutch: lieve vrouwe bedstro; *French*: asperule odorante, muguet des bois, petit muguet, reine des bois, hépatique étoilée, belle étoile; *German*: Waldmeisterkraut, Duftlabkraut, Maikraut; *Italian*: asperula, caglio odorosa, stellina odorosa; *Russian*: jasmennik duschistij; *Spanish*: asperilla olorosa, asperula

Usage ▶ flavoring

Parts Used ▶ fresh herb

Distribution ▶ N and C Europe, Turkey, Caucasus, N Iran, W, E Siberia, Japan, C Asia, N Africa, USA

Note ▶ In Germany and other Europe countries the use of this plant to produce essences for sale is prohibited (high coumarin content).

Aichele/Schwegler 3, 1995; Bilgri/Adam 2000; Bois 1934; Bremness 2001; Charalambous 1994; Cheers 1991; Clair 1961; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Laub et al. 1982, 1985; Pschyrembel 1998; Roth/Kormann 1997; Schönfelder 2001; Šedo/Krejča 1983; Seidemann 1993c, 1994; Seidemann/Siebert 1987; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Wörner/Schreier 1991; Wüstenfeld/Haensel 1964

GARCINIA L. - Mangosteen - Clusiaceae (Guttiferae)

**Garcinia atroviridis** *Griff. ex T. Anderson*

Common Names ▶ *Malaysian*: asam gelungor

Usage ▶ spice, substitute for tamarind pulp

Parts Used ▶ fruit

Distribution ▶ Malaysia

Burkill 1965; Hanelt 2001; Kumar 2003; Schultze-Motel 1986; Uphof 1968; Verheij/Coronel 1991; Zeven/de Wet 1982


Garcinia cambogia (Gaertn.) Desr.

Common Names ▶ Malabar tamarind, cambodge, gora-ga; *German*: Malabar-Tamarinde; *India*: gamboge; *Malaysian*: asam glugur, gelugur

Usage ▶ flavoring, locally as fruit spice

Parts Used ▶ fruit

Distribution ▶ India: Assam; Sri Lanka, Malaysia

Davidson 1999; Hanelt 2001; Krishnamurthy et al. 1981; Lewis/Neelakantan 1965; Peter 2001; Sánchez-Monge 1991; Uphof 1968; Verghese 1991

Usage ▶ spice, substitute for tamarind pulp

Parts Used ▶ fruit

Distribution ▶ India, Sri Lanka, China; cultivated in tropical regions of the New World

Cheers 1997; Wiersema/León 1999

GARDENIA Ellis - Gardenia - Rubiaceae

Gardenia augusta (L.) Merr.

Synonyms ▶ *Gardenia grandiflora* Lour., *Gardenia jasminoides* Ellis, *Gardenia radicans* Thunb.

Common Names ▶ Cape jasmine, Cape jessamine, common gardenia, gardenia; *Chinese*: hi zu, zhi zi; *French*: gardénia; *German*: Kap-Gardenie, Kap-Jasmin, Jasminglanz; *Indonesian*: kaca piring; *Korean*: chijanam; *Malaysian*: bunga cina; *Pilipino*: rosal; *Russian*: gardenia; *Thai*: phut chiin, phut son, khae thawaa; *Vietnamese*: dành dành

Usage ▶ flavoring (of tea); **product**: essential oil

Parts Used ▶ flower

Distribution ▶ origin E Asia, cultivated in India, China, Taiwan, Japan, cultivated elsewhere, Mexico

Note ▶ The dye in the fruits (wongsky) are used in the food industry and for coloring silk and other clothes.

Cheese 1997; Erhardt et al. 2000, 2002; Hiller/Melzig 1999; Jacquat 2000; Kottegoda 1994; Pfister et al. 1996; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993c; Storrs 1997; Turova et al. 1987; Villamar et al. 1994; Warren 1998; WHO 1990; Wiersema/León 1999; Zeven/de Wet 1982


Garcinia purpurea Roxb.

▶ *Garcinia indica* (Thouars) Choisy


Garcinia tinctoria (Choisy) W.F. Wight

▶ *Garcinia xanthochymus* Hook.f. ex T. Anderson


Garcinia xanthochymus Hook.f. ex T. Anderson

Synonyms ▶ *Garcinia tinctoria* (Choisy) W.F. Wight

Common Names ▶ *India*: gamboge, mundu


Gardenia grandiflora Lour.

▶ *Gardenia augusta* (L.) Merr.


Gardenia jasminoides Ellis

▶ *Gardenia augusta* (L.) Merr.

 Gardenia radicans *Thunb.*

➤ *Gardenia augusta* (L.) Merr.

 Gastrochilus pandurata (Roxb.) Ridley

➤ *Boesenbergia rotundata* (L.) Mansf.

GAULTHERIA Kalm ex L. - Shallon - Ericaceae
 Gaultheria procumbens L.

Synonyms ▶ *Gaultheria repens* Raf.

Common Names ▶ box berry, checker berry, alpine wintergreen, creeping wintergreen, mountain tea, tea berry; *French*: gaulthérie du Canada, thé de bois; *German*: Niedere Rebhuhnbeere, Niederliegende Scheinbeere; *Italian*: uva di monte

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ essential oil (Wintergreen oil)

Distribution ▶ E Canada, USA

Note ▶ The essential oil is used as a flavoring agent in beers, beverages, candies, chewing gums and soft drinks.

Duke 2002; Duke et al. 2003; Hanelt 2001; Hoppe 1949; Rättsch 1998; Roth/Kormann 1997; Uphof 1968; Wyk et al. 2004

 Gaultheria repens Raf.

➤ *Gaultheria procumbens* L.

GEIGERIA Griess. - Asteraceae (Compositae)
 Geigeria alata (DC.) Oliv. et Hiern

Common Names ▶ winged Geigeria; *German*: Geglügelte Geigerie

Usage ▶ spice (sauce by Arabs in Eritrea)

Parts Used ▶ herb

Distribution ▶ C, S tropical Africa and on into Arabia

Burkill 1, 1985

GENTIANA L. - Gentian - Gentianaceae

Ting-Non/Shang-wu 2001

 Gentiana asclepiadea L.

Common Names ▶ willow gentian; *French*: gentiane fausse asclépiade; *German*: Schwalbenwurz-Enzian;

Usage ▶ flavoring; as tonic and for bitters and bitter liqueurs (➤ *Gentiana lutea* L.)

Parts Used ▶ rhizome

Distribution ▶ Europe: Alps, Carpathian region

Aichele/Schwegler 3, 1995; Cheers 1997; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Hiller/Menzig 1999; Schönfelder 2001; Seidemann 1993c; Wiersma/León 1997

 Gentiana chirayta Roxb.

➤ *Swertia chirata* Buch.-Ham. ex Wall.

 Gentiana kurroo Royle

Common Names ▶ Indian gentian; *German*: Indischer Enzian; *India*: karu, kutki;

Usage ▶ flavoring; substitute for *Gentiana lutea* L.

Parts Used ▶ rhizome

Distribution ▶ NW Himalayas

Chauhan 1999; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Sharma 2003; Uphof 1968; Wealth of India 4, 1956

 Gentiana lutea L.

Common Names ▶ bitter root, yellow gentian; *French*: grande gentiane, gentiane jaune; *German*: Gelber Enzian, Bitterwurz; *Italian*: genziana maggiore, genziana gialla; *Russian*: goretshavka scheltaja; *Spanish*: genciana amarilla

Usage ▶ flavoring, as tonic and for bitters and bitters



■ **Gentiana lutea, flowering**

liqueurs (e.g.: Boonecamp, Stonsdorfer, Underberg)

Parts Used ▶ rhizome

Distribution ▶ mountains parts of S Europe, S Europe and E Europe to Asia minor.

Note ▶ The plant is protected in Germany and other countries. Predominantly wild growths are used. Mostly cultivated in trials or in small areas.

Aichele/Schwegler 3, 1995; Ariño et al. 1997; Brodt 1982; Cheers 1997; Chialva et al. 1986; Coiciu/Racz (no year); Dudtschenko et al. 1989; Fleischhauer 2003; Franz/Fritz 1975, 1978; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Newall et al. 1996; Pschyrembel 1998; Schier/Schultze 1989; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Täufel et. al. 1993; Uphof 1968; Verotta 1985; Viel 1979; Wagner/Münzing-Vasirian 1975; Wealth of India 4, 1956; Wüstenfeld/Haensel 1964; Wyk et al. 2004

Gentiana pannoniaca Scop.

Common Names ▶ Hungary gentian; *German*: Ungarischer Enzian;

Usage ▶ flavoring; as tonic and for bitters and bitter liqueurs (➡ *Gentiana lutea* L.)

Parts Used ▶ rhizome

Distribution ▶ high mountains of C Europe: Italy, Czech Republic, Slovakia

Aichele/Schwegler 3, 1995; Fleischhauer 2003; Hager 5, 1993; Hoppe 1949; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987

Gentiana punctata L.

Common Names ▶ spotted gentian; *German*: Tüpfelenzian

Usage ▶ flavoring, as tonic and for bitters and bitter liqueurs (➡ *Gentiana lutea* L.)

Parts Used ▶ rhizome

Distribution ▶ high mountains S and EC Europe: France, Balkan Peninsula

Aichele/Schwegler 3, 1995; Fleischhauer 2003; Hager 5, 1993; Hoppe 1949; Schönfelder 2001; Seidemann 1993; Seidemann/Siebert 1987

Gentiana purpurea L.

Common Names ▶ purple gentian; *German*: Purpur-Enzian

Usage ▶ flavoring; as tonic and for bitters and bitter liqueurs (➡ *Gentiana lutea* L.)

Parts Used ▶ rhizome

Distribution ▶ high mountains of C Europe: France, Italy and Norway

Aichele/Schwegler 3, 1995; Fleischhauer 2003; Hager 5, 1993; Hoppe 1949; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Sticher/Meier 1980

GENTIANELLA Moench - Felwort - Gentianaceae

Gentianella campestris (L.) Börner

Common Names ▶ Feld-Gentianelle

Usage ▶ flavoring for bitter liqueurs and substitute for hops (rarely)

Parts Used ▶ herb

Distribution ▶ Europe

Erhardt et al. 2003; Fleischhauer 2003; Schnelle 1999

GERANIUM L. - Crane's Bill - Geraniaceae

Geranium crispum Berg

▶ *Pelargonium crispum* (Berg.) L'Hérit. ex Ait.

Geranium fragrans Poir.

▶ *Pelargonium fragrans* (Poir.) Willd.

Geranium graveolens Thunb.

▶ *Pelargonium graveolens* L'Hérit.

Geranium lugubre Salisb.

▶ *Geranium macrorrhizum* L.

Geranium macrorrhizum L.

Synonyms ▶ *Geranium lugubre* Salisb.

Common Names ▶ Bulgarian geranium; *French*: géranium des Balkans, géranium à grosses racines; *German*: Dusterer Storchschnabel, Felsen-Storchschnabel; *Russian*: geran prjamja

Usage ▶ flavoring; **product**: essential oil ("Zdrawetz oil")

Parts Used ▶ leaf, herb

Distribution ▶ Southern Alps and Apennines to the Balkan region, W Russia, Crimea

Arctander 1960; Erhardt et al. 2000, 2002; Hanelt 2001; Roth/Kormann 1997; Schultze-Motel 1986; Uphof 1968; Yeo 1988

Geranium moschatum L.

▶ *Erodium moschatum* (L.) L'Hérit. ex Ait.

Geranium odoratissimum L.

▶ *Pelargonium odoratissimum* (L.) L'Hérit. ex Ait.

Geranium odoratum Burm.

▶ *Pelargonium odoratissimum* (L.) L'Hérit. ex Ait.

Geranium revolutum Jacq.

▶ *Pelargonium radens* Moor

GEUM L. - Avens - Rosaceae

Geum caryophyllea Gilib.

▶ *Geum urbanum* L.

Geum laxmanni Gaertn.

▶ *Coluria geoides* (Pall.) Ledeb.

Geum montanum L.

Common Names ▶ alpine avens; *German*: Berg-Nelkenwurz, Tormentillwurz

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ Europe: Scandinavia and British Isles, mountains

Note ▶ The root has a clove-like taste and when cloves

are not available the root is used as a substitute for them.

Aichele/Schwegler 2, 1994; Erhardt et al. 2002; Hager 5, 1993; Seidemann 1993



Geum potentilloides Ait.

➤ *Coluria geoides* (Pall.) Ledeb.

G



Geum rivale L.

Common Names ▶ Indian chocolate root, purple avens, water avens; *German*: Bach-Nelkenwurz

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ Europe, Turkey, Caucasus, W, E Siberia, C Asia

Note ▶ The root has a like clove taste and when cloves are not available the root is used as a substitute for them.

Aichele/Schwegler 2, 1994; Cheers 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hager 5, 1993; Hiller/Melzig 1999; Schönfelder 2001; Seidemann 1993; Täufel et al. 1993; Uphof 1968



Geum urbanum L.

Synonyms ▶ *Caryophyllata urbana* Scop., *Caryophyllata officinalis* Moench, *Geum caryophyllea* Gilib.

Common Names ▶ avens root, clove root, herb bennet, wood avens; *French*: benoîte commune; *German*: Echte Nelkenwurz, Urban-Nelkenwurz; *Italian*: cariofillata, erba benedetta, garofanaia, ambretta; *Russian*: grawilat, grawilat antetschnij, grawilat gorodskoj, gosditschnik, grebennik, tschistez, benediktowa trawa, podlesnik; *Spanish*: cariofilata, radic de San benito

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ Europe, Turkey, Syria, N Iraq, Caucasus, N Iran, W Siberia, W Himalayas, temperate Asia; NW Africa; native elsewhere

Note ▶ The root has a like clove taste and when cloves are not available the root is used as a substitute for them.

Aichele/Schwegler 2, 1994; Coiciu/Racz (no year); Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hager 5, 1993; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Newall et al. 1996; Pschyrembel 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Uphof 1968; Vollmann/Schultze 1995a, b; Wiersma/León 1997; Wüstenfeld/Haensel 1964; Wyk et al. 2004

GINGKO L. - Ginkgo - Ginkgoaceae



Ginkgo biloba L.

Synonyms ▶ *Gingkyo biloba* Mayr, *Salisburia biloba* Hoffmannsegg

Common Names ▶ ginkgo, maidenhair tree; *Chinese*: pai-kuo, ying kuo; *French*: arbre aux quarante écus, ginkgo, noyer du Japon; *German*: Ginkgobaum, Mädchenhaarbaum; *Japanese*: ginkyo, ginnan; *Korean*: khong; *Russian*: ginkgo; *Spanish*: arbol de los escudos

Usage ▶ spice for soups and vegetables dishes

Parts Used ▶ seeds, frequently roasted

Distribution ▶ SE China, Japan cultivated

Cheers 1997; Erhardt et al. 2002; Hanelt 2001; Lück 2000; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wiersma/León 1997; Wyk et al. 2004



Gingkyo biloba Mayr

➤ *Ginkgo biloba* L.

GISEKIA L. - Aitzoaceae



Gisekia pharmnaceoides L.

Usage ▶ condiment

Parts Used ▶ herb

Distribution ▶ tropical W Africa: Mali, Niger, Nigeria, Senegal; E India

Burkill 1, 1985; Uphof 1968

GLECHOMA L. - Ground Ivy - Lamiaceae (Labiatae)



Glechoma hederacea L.

Synonyms ▶ *Calamintha hederacea* (L.) Scop., *Nepeta glechoma* Benth.

Common Names ▶ alehoof, gill over the ground, ground ivy; *Chinese*: lien ch'ien, ou huo xue dan, ts'ao; *French*: gléchome, courroie de Saint Jean, lierre terrestre, rondelette; *German*: Gundermann, Gundelrebe, Erd-Efeu; *Italian*: edera terrestre; *Japanese*: kakidoshi; *Russian*: budra, budea pljuschtschewidnaja; *Spanish*: hiedra terrestre, sumidad de hierba terrestre

Usage ▶ spice (for soups)

Parts Used ▶ leaf, herb

Distribution ▶ Eurasia, temperate Asia, native N America

Note ▶ Use for flavoring beer like hops in the Middle Ages in England.

Aichele/Schwegler 4, 1995; Berger 4, 1954; Bilgri/Adam 2000; Cheers 1997; Clair 1961; Dahl 1994; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Newall et al. 1996; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Stahl/Datta 1972; Tucker 1986; Uphof 1968; Wiersema/León 1999; Zieba 1973

GLEHNIA Schmidt ex Miq. - Apiaceae (Umbelliferae)



Glehnia littoralis F. Schmidt ex Miq.

Synonyms ▶ *Cymopterus littoralis* A. Gray; *Phellopteris littoralis* Benth.

Common Names ▶ cork wing; *Chinese*: bei sha shen, shan hu cai; *Japanese*: hama-bōfu, yavya-bōfu; *Korean*: kaetppangphung; *Russian*: glenija pribretschnaja

Usage ▶ condiment, resembling *Angelica* (*Angelica archangelica* L.) and *Tarragon* (*Artemisia dracunculoides* L.); in Japan for salads, fish dishes, and sweet Japanese sake [toso]

Parts Used ▶ young leaf and leaf stalks

Distribution ▶ W, E coast of N Pacific: Japan, China, Sakhalin

Note ▶ The taste is like a cross between *Angelica* and *Tarragon*.

Davidson 1999; Facciola 1990; Hanelt 2001; Uphof 1968; Zeven/de Wet 1982

GLINUS L. - Molluginaceae



Glinus lotoides L.

Synonyms ▶ *Mollugo hirta* Thunb.

Common Names ▶ hairy carpet weed, hairy glinus; *Arabic*: ghobbeira, mogheira; *Hindi*: gandibudi;

Usage ▶ pot-herb

Parts Used ▶ tender shoot

Distribution ▶ India, China

Arora/Padney 1996



Glinus oppositifolius (L.) DC.

Synonyms ▶ *Mollugo oppositifolia* L.

Common Names ▶ *Pilipino*: malagosa, sarsalida; *Thai*: sada-din, phakkhuang;

Usage ▶ pot-herb

Parts Used ▶ herb, leaf

Distribution ▶ Madagascar, also cultivated in tropical parts of Africa and Asia to N Australia

Hanelt 2001; Husain et al. 1992

GLOBBA L. - Zingiberaceae



Globba marantina L.

Common Names ▶ *Indonesian*: kapulaga ambon, halia utan, bonelau; *Pilipino*: barak, bangliu

Usage ▶ seasoning

Parts Used ▶ bulbils (are spicy), herb

Distribution ▶ India: temperate Himalayas, Moluccas, Thailand, Philippines to New Guinea, Solomon Islands

Note ► The bulbils is also used as cardamom.

Arora/Padney 1996; Erhardt et al. 2002; Guzman/Siemonsma 1999; Kumar 2001; Oyen/Dung 1999

GLOCHIDION Forster et Forster f. - Euphorbiaceae



Glochidion llanosii Müll.

Synonyms ► *Phyllanthus llanosii* Müll.

Usage ► spice (flavoring)

Parts Used ► young sprout, leaf (for fish dishes), bulbil

Distribution ► India: Khasi hills, region former Indochina, Philippines

Arora/Pandey 1996; Bois 1934; Hanelt 2001; Schultze-Motel 1986; Uphof 1968

GLYCINE Willd. - Soya Bean - Fabaceae (Leguminosae)



Glycine abrus L.

► *Abrus precatorius* L.



Glycine hispida (Moench) Maxim

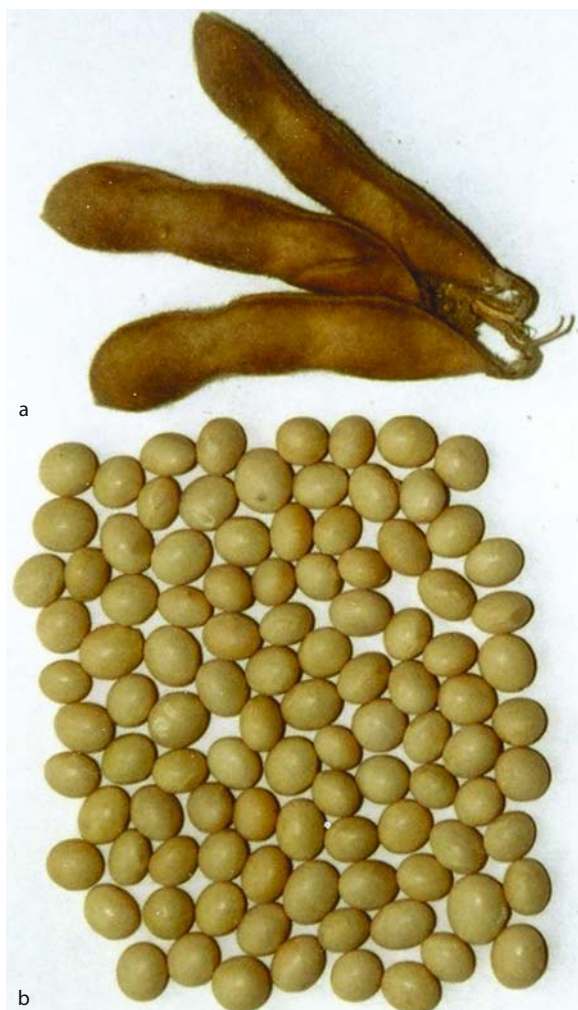
► *Glycine max* (L.) Merr.



Glycine max (L.) Merr. ■

Synonyms ► *Glycine hispida* (Moench) Maxim., *Glycine soja* Siebold et Zucc., *Glycine ussuriensis* Regel et Maack, *Soja hispida* (Moench) Maxim.

Common Names ► soya, soya bean; *Arabic*: ful suyah; *Chinese*: mao dou; *Dutch*: sojaboon; *French*: soja, soya; *German*: Sojabohne; *Indonesian*: kacang kedelai; *Italian*: pianta di soia; *Japanese*: shoyu; *Korean*: khong; *Malaysian*: kacang, soya putih; *Portuguese*: soja; *Spanish*: soja, soya; *Russian*: soja, soewyj bob; *Spanish*: habas de soya, frijol de soya, soya; *Thai*: thua rae;



■ **Glycine max**: a fruits, b seeds

Usage ► basis of condiment (soya sauces: miso, shoju, tsian je'u etc.)

Parts Used ► seed

Distribution ► origin E Asia; only cultivated

Note ► The seeds are the basis for the production (fermentation) of soya sauce and other soya products.

Bendel 2002; Beuchat 1984; Bois 1934; Brückner et al. 1989; Cheers 1997; Davidson 1999; Erhardt et al. 2000, 2002; Genovese/Lajolo 2002; Giami 1997, 2002; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hoppe 1949; Kakade et al. 1972; Khader 1983; Kumar 2003; Lamboni et al. 1999; Lewington 1990; Liener 1994; Liu 1997; Markley 1950/51; Mazza/Ooham 2000; Pschyrembel 1998; Pursglove 1968; Schenck/Naundorf 1966; Seidemann 1993c; Song et al. 2003; Täufel et al. 1993; Teuscher 2003; Trueb 1999; Ueki et al. 1994; Uphof 1968;

Vogt 1987; Wiersma/León 1999; Wyk et al. 2004; Zeven/de Wet 1982



Glycine soja Siebold et Zucc.

➤ *Glycine max* (L.) Merr.



Glycine ussuriensis Regel et Maack

➤ *Glycine max* (L.) Merr.

GLYCYRRHIZA L. – Licorice, Liquorice, Sweetwood - Fabaceae (Leguminosae)



Glycyrrhiza diochorides Medik.

➤ *Glycyrrhiza echinata* L.



Glycyrrhiza echinata L.

Synonyms ▶ *Glycyrriza diochorides* Medik.

Common Names ▶ Roman liquorice; *German*: Römisches Süßholz, Russisches Süßholz;

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ SE Europe, Turkey, Syria, Palestine, Caucasus, Iran, E Asia

Hager 5, 1993; Hanelt 2001; Heeger 1956; Morris/Mackley 1999; Schultze-Motel 1986; Seidemann 1993c; Steinlesberger 2004; Täufel et al. 1993; Willimot 1963; Zeven/de Wet 1982



Glycyrrhiza echinate Lepesch.

➤ *Glycyrrhiza glabra* L.



Glycyrrhiza glabra L.

Synonyms ▶ *Glycyrrhiza echinata* Lepesch., *Glycyrrhiza officinalis* Lepech., *Liquiritia officinarum* Medik., *Liquiritia officinalis* Moench

Common Names ▶ common licorice, liquorice, Spanish liquorice; *Chinese*: fen tsao; *French*: réglisse, glyc-

yrhize; *German*: Deutsches Süßholz, Griechisches Süßholz, Italienisches Süßholz, Spanisches Süßholz, Lakritze; *Hindi*: mulhatti; *Italian*: liquirizia; *Korean*: minkamcho; *Portuguese*: alcaçuz; *Russian*: solodka golaja; *Sanskrit*: madhuka; *Slovenian*: sladké drevko; *Spanish*: alcazuz, licóriz, orozuz, regalicia, regaliz

Usage ▶ spice, flavoring (tobacco, liqueurs); **product**: liquorice

Parts Used ▶ root

Distribution ▶ E, SE and SW Europe, Turkey, Iran, temperate Asia, India, China, Libya

Arystanova et al. 2001; Bielenberg 1998; Bullmann et al. 1990; Chandler 1985; Cheers 1997; Coiciu/Racz (no year); Craze 2002; Davidson 1999; Duke et al. 2003; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Gordon/Jing 1995; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Kwasniewski 1952; Leung 1991; Lewington 1990; Lutomski 1983; Mazza/Oomah 2000; Miething/Speicher-Brinker 1989; Morris/Mackley 1999; Newall et al. 1996; Pachaly 1990b; Pschyrembel 1998; Putscher 1968; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Steinlesberger 2004; Täufel et al. 1993; Turova et al. 1987; Uphof 1968; Weinberg et al. 1993b; Wiersema/León 1999; Willimot 1963; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982



Glycyrrhiza grandiflora Tausch

➤ *Glycyrrhiza uralensis* Fisch. ex DC.



Glycyrrhiza lepidota (Nutt.) Pursh

Synonyms ▶ *Liquiritia lepidota* Nutt.

Common Names ▶ American licorice; *German*: Amerikanisches Süßholz

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ America, SW Canada N Mexico

Note ▶ The fleshy roots are specially used by native Americans.

Hager 5, 1993; Hanelt 2001; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Uphof 1968



Glycyrrhiza officinalis Lepech.

➤ *Glycyrrhiza glabra* L.

 Glycyrrhiza uralensis Fisch. ex DC.

Synonyms ▶ *Glycyrrhiza grandiflora* Tausch

Common Names ▶ Chinese licorice, Manchurian liquorice; *Chinese*: gan zao, kann tsao; *German*: Chinesisches Süßholz, Russisches Süßholz, Anatolisches Süßholz; *Korean*: kamcho; *Russian*: solodka ural'skaja

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ temperate Asia, India, Mongolia, E Europe, cultivated elsewhere

Dalby 2000; Hager 5, 1993; Hanelt 2001; Hoppe 1949; Leung 1991; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Tan Tianwei et al. 2002; Täufel et al. 1993; Turova et al. 1987; Wiersema/Léon 1997

GNAPHALIUM L. - Cudweed - Asteraceae (Compositae)
 Gnaphalium indicum L.

Common Names ▶ Indian cudweed, tiny cudweed; *French*: gnaphale de l'Inde; *German*: Indisches Ruhrkraut; *Russian*: suscheniza

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India: Bihar

Arora/Pandey 1996; Quattrocchi 1999

 Granatum punicum St. Lag.

▶ *Punica granatum* L.

 Grastidium salaccense Bl.

▶ *Dendrobium salaccense* (Bl.) Lindley

GREVEA Baill. - Grossulariaceae (Montiniaceae)
 Grevea madagascariensis Baill.

Usage ▶ condiment

Parts Used ▶ fruit

Distribution ▶ E Africa, Madagascar

Mabberley 1997; Neuwinger 1999

GUAJACUM L. - Zygophyllaceae
 Guajacum bijugum Stokes

▶ *Guajacum officinale* L.

 Guajacum officinale L.

Synonyms ▶ *Guajacum bijugum* Stokes

Common Names ▶ lignum vitae; *French*: bois de vie, guaiac officinal, gaya; *German*: Guajakbaum, Franzosenholz, Pockholz; *Italian*: guaiaco, legno santo; *Russian*: gvajakovoe, bakaut; *Spanish*: guayacan negro, palosanto

Usage ▶ spice, flavoring (for herb liqueur)

Parts Used ▶ wood, resin

Distribution ▶ West Indies: Haiti, San Domingo; Mexico, Panama, Columbia, Venezuela

Note ▶ International trade with lignum vitae and the resin has been licenced since November 2002.

Berger 1, 1949; 3, 1952; Bourton 1968; Erhardt et al. 2000, 2002; Grow/Schaertzman 20001; Hager 5, 1993; Hiller/Melzig 1999; Hoppe 1949; Lewington 1990; Martinetz/Lohs 1991; McNay Wood 2003; Newall et al. 1996; Pschyrembel 1998; Rättsch 1992; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Uphof 1968; Vöttner-Pletz 1990; Wiersema/León 1999; Wolters 1994; Wüstenfeld/Haensel 1964; Wyk et al. 2004

 Guajacum sanctum L.

Common Names ▶ holywood, lignum vitae; *German*: Heiliger Guajakbaum, Franzosenholz, Pockholz



■ **Guajacum officinale, flowering**

Usage ► spice, flavoring (for herb liqueur)

Parts Used ► wood, resin

Distribution ► S Mexico, West Indies, SE USA Florida, Caribbean, Meso-America

Note ► *Guajacum sanctum* was introduced to Europe in 1526 by San Domingo.

Berger 1, 1949; 3, 1952; Erhardt et al. 2000, 2002; Grow/Schwartzman 20001; Hager 5, 1993; Hiller/Melzig 1999; Hoppe 1949; Rättsch 1992; Seidemann 1993c; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wolters 1994

GUIZOTIA Cass. - Niger - Asteraceae (Compositae)

 **Guizotia abyssinica** (L.f.) Cass.

Common Names ► niger seed, ramtil; *French*: guizotia, ramtil; *German*: Nigersaat, Ramtillkraut; *Russian*: nug masljtschnyj; *India*: jagni, kadellu, kalatil, ramtil, ramatila

Usage ► condiment for chutneys

Parts Used ► seed

Distribution ► E Africa: Ethiopia.; India, native in California

Burkill 1, 1985; Erhardt et al. 2002; Uphof 1968; Zeven/de Wet 1982

GYMNEMA R.Br. - Asclepiadaceae

 **Gymnea affine** Dec.

► *Gymnea sylvestre* R. Br.

 **Gymnema sylvestre** R. Br.

Synonyms ► *Gymnea affine* Dec.

Common Names ► miracle fruit; *Hindi*: gurmar, merasingi; *India*: adigam, podapatri, kavali, dhuleti

Usage ► pot-herb (in India)

Parts Used ► leaf

Distribution ► Peninsular India, China, Indochina, Malaysia, Australia, W tropical Africa Namibia, tropical and Southern Africa

Arora/Pandey 1996; Hanelt 2001; Irvine 1961; v. Koenen 1996; Uphof 1968; Wealth of India 4, 1956; Wiersema/León 1999

 **Gymnosporia senegalensis** Loes.

► *Maytenus senegalensis* (Lam.) Exell

 **Gynandropsis gynandra** (L.) Brig

► *Cleome gynandra* L.

 **Gynandropsis pentaphylla** (L.) DC.

► *Cleome gynandra* L.

**Gynopogon alyxia** J.R. Forst

➤ *Alyxia lucida* Wall.

**Gynura procumbens** (Lour.) Merr.

Synonyms ▶ *Gynura sarmentosa* (Blume) DC.

Common Names ▶ velvet, velvet plant; *German*: Niederliegende Samtpflanze

Usage ▶ flavoring, condiment

Parts Used ▶ leaf

Distribution ▶ tropical W Africa, tropical Asia: China, Thailand, Indonesia, Malaysia, Vietnam

Burkill 1, 1985; Davies 1978, 1979; Erhardt et al. 2002; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Uphof 1968

**Gynura pseudochina** (L.) DC.

Synonyms ▶ *Gynura sinuata* DC.

Common Names ▶ velvet, velvet plant;

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ tropical Africa, tropical E and SE Asia; cultivated in Malaysia, Vietnam and Java

Burkill 1, 1965; Davies 1979, 1981; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Wealth of India 4, 1956

**Gynura sarmentosa** (Blume) DC.

➤ *Gynura procumbens* (Lour.) Merr.

**Gynura sinuata** DC.

➤ *Gynura pseudochina* (L.) DC.

GYROPHORA Miyoshi - Lichenaceae (Gyrophoraceae)**Gyrophora esculenta** Miyoshi

Synonyms ▶ *Umbilicaria esculenta* Hoffm.

Common Names ▶ *Japanese*: iwatake

Usage ▶ spice

Parts Used ▶ dry lichen

Distribution ▶ mountains in Japan, China

Lück 2004; Täufel et al 1993; Uphof 1968

H

HEDEOMA Pers. - Lamiaceae (Labiatae)

Hedeoma pulegioides (L.) Pers.

Synonyms ▶ *Cunila pulegioides* L., *Melissa pulegioides* L., *Ziziphora pulegioides* (L.) Desf.

Common Names ▶ American (false) pennyroyal, mosquito plant, pennyroyal, squaw mint, tickweed; *German*: Flohkraut, Amerikanische Poley; *Mexico*: poleo;

Usage ▶ spice, flavoring liqueurs and food; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ EN America: Nebraska, Wisconsin to Quebec, New Brunswick; Arkansas and Georgia, E Canada

Bourton 1968; Charalambous 1994; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Newall et al. 1974d, 1978; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Tucker 1986; Uphof 1968; Wiersema/León 1999

HEDYCHIMUM J. König - Ginger Lily - Zingiberaceae

Hedychium aurantiacum Roxb.

▶ *Hedychium coccineum* Buch.-Ham. var. *aurantiacum* Roxb.

Hedychium coccineum Buch.-Ham. var. *aurantiacum* Roxb.

Synonyms ▶ *Hedychium aurantiacum* Rosc.

Common Names ▶ red ginger lily, scarlet ginger lily; *German*: Roter Schmetterlingsingwer, Scharlachrote Kranzblume

Usage ▶ kitchen garden herb (rarely)

Parts Used ▶ herb

Distribution ▶ W Himalayas

Aurora/Pandey 1996; Erhardt et al. 2002; Gurib-Fakim et al. 2002; Kumar 2001; Yusuf et al. 2002

Hedychium coronarium König

Common Names ▶ butterfly lily, garland flower, white ginger lily; *Brazil (Portuguese)*: acucena, lírio-do-brejo; *Chinese*: tu giang huo; *German*: Weiße Schmetterlingslilie, Weiße Girlandenblume, Weiße Kranzblume; *Japanese*: hana shuku sha; *Thai*: ma-haahong, krathaai, haanghong

Usage ▶ spice (rarely)

Parts Used ▶ flower

Distribution ▶ Himalyas, India, Sri Lanka, Malaysia, Thailand

Arora/Pandey 1996; Gurib-Fakim/Brendler 2004; Gurib-Fakim et al. 2002; Itokawa et al. 1988a, b; Jacquat 1990; Kumar 2001; Larsen et al. 1999; Mors et al. 2000; Rättsch/Müller-Ebeling 2003; Tao Guoda 1998; Uphof 1968; Wong 1999; Yusuf et al. 2002

HEDYOSMUM O. Sw. - Chloranthaceae

 **Hedyosmum bonplandianum** Mart.

➤ *Hedyosmum brasiliense* Mart.

 **Hedyosmum brasiliense** Mart.

Synonyms ▶ *Hedyosmum bonplandianum* Mart.

Common Names ▶ *Brazil (Portuguese)*: chá de bugre, chá-de-soldado, erva almíscar, erva-de-soldado, hortelã-do-brejo

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Brazil: Minas Gerais, São Paulo

Note ▶ The leaves have a peppermint-like taste.

Freise 1936; Hanelt 2001; Mors et al. 2000; Opdyke 1978; Schultze-Motel 1986; Uphof 1968

 **Helenium grandiflorum** Gilib.

➤ *Inula helenium* L.

HELICHRYSUM Mill. - Everlasting Flower - Asteraceae (Compositae)

 **Helichrysum angustifolium** (Lam.) DC.

➤ *Helichrysum italicum* (Roth) D. Don

 **Helichrysum italicum** (Roth) D. Don

Synonyms ▶ *Helichrysum angustifolium* (Lam.) DC.; *Helichrysum serotinum* Boiss.

Common Names ▶ curry plant, Italian everlasting, immortelle; *French*: immortelle de Italiener; *German*: Currykraut, Italienische Sandstrohlume; *Russian*: zmin

Usage ▶ pot-herb; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ SW and SE Europe, especially Italy, Iberia, S France, N Africa, W Asia

Note ▶ This plant and the ssp. *microphyllum* (Willd.) Nym., dwarf curry plant, and ssp. *serotinum* (Boiss.) P. Fourn., curry plant, have a slight curry taste.

Aichele/Schwegler 4, 1995; Angioni et al. 2003; Bärtels 1997; Bianchini et al. 2001; Charalambous 1994; Cheers 1997; Clebsch 1997; Erhardt et al. 2000, 2002; Norman 1998; Roussis et al. 1997; Satta et al. 1999; Teuscher 2003; Tucker 1986; Tucker et al. 1997; Wiersema/León 1999

 **Helichrysum serotinum** Boiss.

➤ *Heliochrysum italicum* (Roth) D. Don

 **Helichrysum tianschanicum** Regel

Common Names ▶ *French*: immortelle du Tian-shan; *German*: Maggikraut

Usage ▶ pot-herb

Parts Used ▶ herb

Distribution ▶ C Asia

Erhardt et al. 2002

HELIOTROPIUM L. - Heliotrope, Turnsole - Boraginaceae

 **Heliotropium arborescens** L.

Synonyms ▶ *Heliotropium corymbosum* Ruiz. et Pav., *Heliotropium peruvianum* L.

Common Names ▶ cherry pie, heliotrope; *French*: héliotrope; *German*: Vanilleblume, Peruanische Sonnenwende, Strauchige Sonnenwende; *Peru*: docto vainilla; *Russian*: geliotron; *Spanish*: heliotropo

Usage ▶ flavoring

Parts Used ▶ leaf, flower

Distribution ▶ S America: Peru; cultivated elsewhere;

Cheers 1997; Erhardt et al. 2000, 2002; Hiller/Melzig 1999; Schultze-Motel 1986; Wiersema/León 1999

 Heliotropium corymbosum Ruiz. et Pav.

➤ *Heliotropium arborescens* L.

 Heliotropium peruvianum L.

➤ *Heliotropium arborescens* L.

HEMEROCALLIS L. - Day lily - Hemerocallidaceae (Liliaceae)

 Hemerocallis aurantiaca Baker

Common Names ▶ orange (colored) day lily; *German*: Orangefarbene Taglilie

Usage ▶ flavoring

Parts Used ▶ flower bud, flower leaf

Distribution ▶ China, Korea

Davidson 1999; Erhardt 1988; Erhardt et al. 2002

 Hemerocallis citrina Baroni

Common Names ▶ lemon day lily; *French*: lis d'un jour; *German*: Zitronen- or Wilde Taglilie

Usage ▶ flavoring

Parts Used ▶ flower bud, flower leaf

Distribution ▶ China: Schensi

Erhardt et al. 2002

 Hemerocallis crocea Lam.

➤ *Hemerocallis fulva* (L.) L.

 Hemerocallis flava (L.) L.

➤ *Hemerocallis lilio-asphodelus* L.

 Hemerocallis fulva (L.) L.

Synonyms ▶ *Hemerocallis crocea* Lam.

Common Names ▶ fulvous day lily, golden needles, orange needles, tawn day lily; *Chinese*: hsuan ts'ao; *French*: hémérocalle brun-rouge; *German*: Bahnwärter-Taglilie, Rotgelbe Taglilie, Braunrote Taglilie; *Japanese*: yabu-kanzo, oni-kanzo; *Russian*: krasodnev ryschij; *Vietnamese*: hoa hien, kim chau, phac cham

Usage ▶ condiment, flavoring

Parts Used ▶ dry flower bud, flower leaf

Distribution ▶ origin Japan?, China, E Asia, native in Europe, N America, cultivated elsewhere

Aichele/Schwegler 5, 1996; Asen/Arisumi 1968; Bois 1934; Cheers 1997; Davidson 1999; Erhardt 1988; Erhardt et al. 2002; Fleischhauer 2003; Griesbach/Batdorf 1995; Inoue et al. 1990, 1994; Lück 2004; Robert et al. 2002; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Uphof 1968; WHO 1990; Wiersema/León 1999; Yuan 1993

 Hemerocallis graminea Andr.

➤ *Hemerocallis minor* L.

 Hemerocallis lilio-asphodelus L.

Synonyms ▶ *Hemerocallis flava* (L.) L.

Common Names ▶ lemon day lily, yellow day lily; *French*: hémérocalle jaune, lis asphodèle, lis jaune; *German*: Gelbe Taglilie, Wiesen-Taglilie; *Russian*: krasodnev scheltyi

Usage ▶ flavoring

Parts Used ▶ dry flower bud, flower leaf

Distribution ▶ Italy, Slovenia; SE Alps, native in Europe, W, E Siberia, Amur, China; cultivated elsewhere

Aichele/Schwergel 5, 1996; Asen/Arisumi 1968; Cheers 1997; Erhardt et al. 2002; Fleischhauer 2003; Robert et al. 2002; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Wiersema/León 1999; Yuan 1993

 Hemerocallis minor Mill.

Synonyms ▶ *Hemerocallis graminea* Andr.

Common Names ▶ dwarf yellow day lily, grass leaf day lily, little day lily; *French*: hémérocalle naine; *German*: Kleine or Stern-Taglilie; *Russian*: krasodnev malyj

Usage ▶ spice

Parts Used ▶ flower bud, flower leaf

Distribution ▶ E Siberia, Mongolia, N China, Korea, also cultivated in China, Japan, Europe

Bois 1934; Erhardt 1988; Erhardt et al. 2002; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Yuan 1993

HEMIDESMUS R.Br. - Asclepiadeceae (Periplocaceae)

Hemidesmus indicus (Willd.) R.Br.

Common Names ▶ Indian sarsaparilla, nunnery root; *German*: Indische Sarsaparille; *Hindi*: anantumal, kapun, hindi salsa; *India*: durivel, karibandha, onontomulo, sogade, sugandhi pala, upalasari; *Sanskrit*: anantumala, naga jihva, sariva

Usage ▶ flavoring

Parts Used ▶ root extract and root syrup

Distribution ▶ India, Sri Lanka, cultivated in India

Hanelt 2001; Jirovetz et al. 2002; Karnick 1977; Nagarajan/Rao 2003; Nagarajan et al. 2001; Schultze-Motel 1986; Uphof 1968; Wealth of India 5, 1959

Heptapleurum aromaticum Seem.

➤ *Schefflaria aromatica* Harms

Heptapleurum venulosum Seem.

➤ *Schefflaria venulosa* (Wright et Arn.) Harms

HERACLEUM L. - Hogweed - Apiaceae (Umbelliferae)

Heracleum burmanicum Kurz

Common Names ▶ Burmain cow-parsley; *French*: berce de la Birmanie; *German*: Burmannischer Bärenklau, Burmannische Petersilie; *Russian*: borst-schevik

Usage ▶ pot-herb, applied like parsley

Parts Used ▶ leaf

Distribution ▶ Himalayan region, Myanmar, N Thailand

Brondegaard 1990; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c

Heracleum persicum Michx.

Common Names ▶ Persian cow-parsley; *German*: Persischer Bärenklau, Persische Petersilie

Usage ▶ condiment (in pickles)

Parts Used ▶ seed

Distribution ▶ Iran

Uphof 1968

Herpestis rugosa Roth.

➤ *Limnophila rugosa* (Roth.) Merr.

HESPERETHUSA M. Roemer - Rutaceae

Hesperethusa crenulata (Roxb.) M. Roem.

Synonyms ▶ *Limonea crenulata* Roxb.

Common Names ▶ *Hindi*: beli, tondsha, tor elaga, nay-vila, nayibullal; *India*: kattunarakan

Usage ▶ spice, for fish and meat dishes

Parts Used ▶ fruit

Distribution ▶ Indian, Myanmar, Thailand, SW China, Laos, Cambodia, Vietnam; in India and Java also cultivated

Hanelt 2001; Schultze-Motel 1968; Wealth of India 5, 1959

HETEROTHALAMUS Less. - Euphorbiaceae

Herterothalamus brunoides Less.

Synonyms ▶ *Marshallia brunoides* Less.

Usage ▶ flavoring

Parts Used ▶ plant

Distribution ▶ Argentina to Brazil

Uphof 1968

HETEROTHECA Cass. - Asteraceae (Compositae)

Heterotheca inuloides Cass.

Common Names ▶ false golden aster, Mexican arnica;

German: Goldaster, Mexikanische Arnika

Usage ▶ spice (flavoring) sporadically for liqueurs and bitters

Parts Used ▶ flower

Distribution ▶ C America: Mexico

Note ▶ In Germany often used instead of

▶ *Arnica montana* L.

Hager 5, 1993; Hiller/Melzig 1999; Ochoa/Alonso 1966; Sagrero-Nieves/Bartley 1996; Saukel 1984; Villamar et al. 1994; Willuhn et al. 1985

HIBISCUS L. - Giant or Rose Mallow - Malvaceae

Hibiscus abelmoschus L.

▶ *Abelmoschus moschatus* ssp. *moschatus* Medik.

Hibiscus bifurcatus Blanco

▶ *Hibiscus surattensis* L.

Hibiscus cannabius Merr.

▶ *Hibiscus radiatus* Cav.

Hibiscus lindley Wall.

▶ *Hibiscus radiatus* Cav.

Hibiscus moschatus Salisb.

▶ *Abelmoschus moschatus* ssp. *moschatus* Medik.

Hibiscus radiatus Cav.

Synonyms ▶ *Hibiscus cannabius* Merr., *Hibiscus lindley* Wall.

Common Names ▶ kenaf hibiscus; *Mexico*: clavelina

Usage ▶ pot-herb (in India)

Parts Used ▶ leaf

Distribution ▶ India: Khasi hills, cultivated in Brazil and in SE Asia; probably native to Asia tropics, but native widely in the Old and New world tropics.

Arora/Pandey 1996; Hanelt 2001; Heeger 1956; Schultze-Motel 1986; Small 1997; Zeven/Zhukovsky 1975; Uphof 1968

Hibiscus sabdariffa L.

Common Names ▶ Indian sorrel, Jamaica sorrel, red sorrel, roselle, sorrel; *Arabic*: karkadé; *Brazil (Portuguese)*: azedinha, caruru-azedo, caruru-da-guiné, quibo-azedo, quiabo-róseo, quiabo-roxo, vinagreira; *Chinese*: lou shen kui; *Dutch*: roselle, Surinamese zuring; *French*: oseille de Guinée, karkadé; *German*: Afrikanische Malve, Rosella-Eibisch, Karkade, Rama, Roselle, Sudantee; *Hindi*: lalambari, patwa; *Italian*: carcadè, ibisco fiori, flor de Jamaica; *Japanese*: rohzelu; *Portuguese*: rosela, roseta, caruru azedo; *Russian*: gibiskuc sabdarifa, rosella; *Spanish*: acedera de Guinea, agrio de Guinea, hibisco, rosa de Jamaica serení; *Thai*: kra-chiap daeng; *Yemen*: kakakad

Usage ▶ spice, flavoring

Parts Used ▶ flower, leaf, calyx

Distribution ▶ probable origin in tropical Africa, widely cultivated

Note ▶ The fruits have a high vitamin C content. Dada-wa bassoa, a local spice preparation in Northern Nigeria, is prepared from seeds of *Hibiscus sab-*

dariffa L. and *Hibiscus cannabinus* L. (Indian hemp).

Aedo et al. 2001; Bendel 2002; Berger 1, 1949; Bois 1934; Burkill 4, 1997; Chen et al. 1998; Dashak et al. 2001; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Engler/Phummai 2000; Erhardt et al. 2002; Griebel 1939; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Menßen/Staesche 1974; Mors et al. 2000; Pi-Jen Tsai et al. 2002; Pouget et al. 1990; Pratt 1912; Pschyrembel 1998; Pursglove 1993c; Ross 1999; Schenck/Naundorf 1966; Schilcher 1976; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharaf 1962; Siemonsma/Piluek 1993; Small 1997; Täufel et al. 1993; Udoyasekhara Rao 1996; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wilson/Menzel 1964; Wyk et al. 2004; Zeven/de Wet 1982

H

 Hibiscus surattensis L.

Synonyms ▶ *Hibiscus bifurcatus* Blanco

Common Names ▶ *Pilipino*: ahimit, inabu, labong, sampinit

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ tropical Africa and Asia

Uphof 1968

 Hieracium javanicum Burm.f.

▶ *Emilia javanica* (Burm.f.) C.B. Rob.

HIEROCHLOE R.Br. - Holy Grass - Poaceae (Gramineae)

 Hierochloe odorata (L.) Beauv.

Common Names ▶ holy grass, manna grass, seneca grass, sweet grass, vanilla grass; *French*: houque odorante; *German*: Duftendes Mariengras, Duft-Mariengras, Vanillegras; *Russian*: ljadnik duschistyi, subrovka duschistaja, tschapolot'

Usage ▶ spice, flavoring of liqueurs

Parts Used ▶ leaf

Distribution ▶ Europe, temperate Asia: Caucasus, Alaska, Canada, USA

Aichele/Schwegler 5, 1996; Dudtschenko et al. 1989; Erhardt et al.

2002; Fleischhauer 2003; Hiller/Melzig 1999; Hoppe 1949; Rätsch 1998; Seidemann 1993c, 1994a; Täufel et al. 1993; Uphof 1968; Zainuddin et al. 2002

HILLIELLA (O. Schulz) Y.H. Zhang et H.W. Li - Brassicaceae (Cruciferae)

 Hilliella shuangpaiensis H.W. Li

Common Names ▶ Chinese horseradish *German*: Chinesischer Meerrettich

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ China, C Asia.

Note ▶ Various. Listed under *Cochlearia*.

Mabberley 1997

 Hiroma undarioides Yendo

▶ *Undaria undarioides* Yendo

HONCKENYA Ehrh. - Caryophyllaceae

 Honckenya peploides (L.) Ehrh.

Common Names ▶ sea purslane; *German*: Strandportulak

Usage ▶ pot-herb

Parts Used ▶ leaf and stalk

Distribution ▶ sandy coasts

Note ▶ The leaves and stalks have a borage-like taste.

Mabberley 1997

HOUTTUYNIA Thunb. - Fishwort - Saururaceae

Houttuynia cordata Thunb.

Common Names ▶ fishwort, saururis, heart leaf; *Chinese*: ch'i, chou giao nai, ji cai, vap ca, yu xing cao, zhu bi kong; *French*: houttuynie, en coeur; *German*: Chamäleonblatt, Herzförmige Houttuynie; *Japanese*: gyoseiso, dokudami zoku, yoseiso, shih-yao, chung-yao; *Korean*: yakmemil, giáp ce, osaengchò; *Russian*: chaulljunija serdcevidnaj; *Thai*: phak khaao thoj, pluu-kao; *Vietnamese*: giáp cá, la diep cá

Usage ▶ pot-herb, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ India, China, Taiwan, S Himalayas, India, Cambodia, Vietnam, Japan, Korea, Java, cultivated USA, Argentina

Note ▶ The leaves have a very strong, soapy coriander or fishy taste and odor; the odor in the roots is particularly strong. Consider using it as a substitute for cilantro (coriander leaves). A tri-colored (red, green and white) variegated ornamental variety is available under several names.

Arora/Pandey 1996; Cheers 1997; Duke/Ayensu 1985; Erhardt et al. 2002; Kuebel/Tucker 1988; Kumara 2003; NICBPB 1987; Ogle et al. 2003; Pröbstle et al. 1992, 1994; Schultze-Motel 1986; Small 1997; Taylor 1976; Tucker 1986; Uphof 1968; WHO 1990; Wiersema/León 1999; Zeven/de Wet 1982

HUA Pierre ex de Willd - Huaceae

Hua gabonii Pierre ex de Willd.

Common Names ▶ Cameroon garlic; *Congo*: mufira; *German*: Kamerun-Knoblauch

Usage ▶ spice, condiment

Parts Used ▶ young sprouts and old leaves, seed

Distribution ▶ W Africa: Cameroon, Zaire

Note ▶ The plant parts are enveloped with meat and roasted. The seeds have a characteristic garlic aroma with fresh terpenic note.

Jirovetz et al. 2002; Mabberley 1997; Neuwinger 1999



 *Houttuynia cordata*, flowering

HUMULUS L. - Hop - Cannabaceae

Humulus lupulus L.

Common Names ▶ common hop, hop; *Chinese*: she-ma, pi jiu hua; *Dutch*: hop; *French*: houblon (commun), cônes de houblon, vigne du nord; *German*: (Gewöhnlicher) Hopfen; *Italian*: luppolo, luppolo stroboli; *Japanese*: karahana-sô; *Korean*: hophû; *Portuguese*: lúpulo; *Russian*: chmel', chmel' obyknovennyj; *Spanish*: lúpulo (común), estróbilos de lúpulo

Usage ▶ spice; **product**: pellets, essential oil (hop oil)

Parts Used ▶ female flower; **product**: pellets from crushed flowers, essential oil

Distribution ▶ temperate regions of Europe, N and C Asia, N America, cultivated in Germany, England, Belgium, France, former Czechoslovakia, Russia, China, N America, Australia

Note ▶ Origin of cultivation unknown, cultivated in W

Europe in the 8th to 9th Century in Germany and S France, 16th Century in England.

Albert/Muller 2000; Bart et al. 1994; Bendel 2002; Berger 1, 1949; Bois 1934; Borde et al. 1989; Bremness 2001; Cheers 1997; Clarke 1986; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Edwardson 1952; Farrell 1985; Field 1996; Fleischhauer 2003; Forster 1981; Guadagni et al. 1966; Hager 5, 1993; Hanelt 2001; Hänsel/Schulz 1986; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Kač/Kovačević 2000; Katsiodis et al. 1989; Kiewitt et al. 1983; Mayer 2003; Mizobuchi/Sato 1984, 1985; Neve 1991; Newall et al. 1996; Pschyrembel 1998; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Sharpe/Laws 1981; Steinhaus/Schieberle 1999; Stiegler 1949; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Trueb 1998; Ubillos 1989; Uphof 1968; Verzele 1986; Verschuere et al. 1992; Wiersma/León 1999; Wilding et al. 1983; Wyk et al. 2004; Zeven/de Wet 1982

HYDROCHARIS L. - Frogbit - Hydrocharitaceae

Hydrocharis chevelaiéri (de Wild.) Dandy

Common Names ▶ African frogbite; *French*: Africain morène; *German*: Afrikanischer Froschbiss

Usage ▶ condiment (vegetable salt)

Parts Used ▶ the plant ashes

Distribution ▶ C Africa

Note ▶ A source of edible salt. The salt is higher in potassium content than edible salt.

Hanelt 2001; Tisserant 1953

HYGROPHYLA R. Br. - Wisteria - Acanthaceae

Hygrophyla angustifolia R. Br.

Synonyms ▶ *Hygrophyla salicifolia* Nees

Common Names ▶ water wisteria; *German*: Schmalblättriger Wasserfreund, Schmalblättrige Wisterie

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ SE Asia

Arora/Pandey 1996; Erhardt et al. 2002

Hygrophyla auriculata (Schum.) Heine

Synonyms ▶ *Baleria longifolia* L., *Baleria auriculata* Schum.

Common Names ▶ *German*: Kleinöhrige Wisterie

Usage ▶ condiment (vegetable ash)

Parts Used ▶ the plant ash

Distribution ▶ tropical W Africa: Cameroon, Congo, Zaire, also cultivated; India, Sri Lanka

Hanelt 2001; Schultze-Motel 1986

Hygrophyla salicifolia Nees

▶ *Hygrophyla angustifolia* R.Br.

HYPERICUM L. - St. John's Wort - Hypericaceae

Hypericum lanceolatum Lam.

▶ *Hypericum revolutum* Vahl.

Hypericum perforatum L.

Common Names ▶ (perforated) St. John's Wort, hard-hay, khlawath weed, millepertuis; *Dutch*: Sintjans-kruit; *French*: millepertuis perforé; herbe de la Saint-Jean, chasse diable; *German*: Echtes Johanniskraut, Johannisblut, Konradskraut, Tüpfelhartheu, Tüpfel-Johanniskraut; *Italian*: erba di San Giovanni comune, iperico, cacciadiavoli, pilatro; *Russian*: sweroboj pronsjonolistnyj; *Spanish*: corazoncillo, hipérico, hierba de San Juan

Usage ▶ spice, sporadically of fish and bitter liqueurs; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ Eurasia, NW Africa

Note ▶ In the 15th to 17th Century the herb was used to season beer.

Aichele/Schwegler 3, 1995; Albert/Muller 2000; Ang et al. 2002; Ayuga/Rebuelta 1986; Berger 4, 1954; Berghöfer/Hölzl 1986; Bourton 1968; Cheers 1997; Clair 1961; Coiciu/Racz (no year);

Cui/Ang 2002; Czygan 1993; Dorossiev 1985; Dudtschenko et al. 1989; Erdelmeier 1998; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Frascio 2003; Gray et al. 2000; Hager 5, 1993; Gruczyk 2001; Hanelt 2000; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hölzl/Ostrowski 1987; Hoppe 1949; Lürtz/Plescher 1998; Maisenbache/Kovar 1992; Mazza/Oomah 2000; Newall et al. 1996; Orth et al. 1999; Poginsky et al. 1988; Pschyrembel 1998; Roth 1990; Roth/Kormann 1997; Schilling 1969; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Stochmal/Gruszczyk 1998; Täufel et al. 1993; Turova et al. 1987; Uphof 1968; Vanhaelen/Vanhaelen-Fastré 1983; Vickery 1981; Weyersdorf et al. 1995; Wyk et al. 2004

Hypericum revolutum Vahl

Synonyms ▶ *Hypericum lanceolatum* Lam.

Common Names ▶ curry bush, forest primrose; *German*: Currybusch

Usage ▶ condiment

Parts Used ▶ herb

Distribution ▶ S Africa

Joffe 1993

HYPTIS Jacq. - Lamiaceae (Labiatae)

Hyptis albida H.B.K.

Usage ▶ flavoring of food

Parts Used ▶ leaf

Distribution ▶ Mexico

Uphof 1968

Hyptis pectinata (L.) Poit.

Common Names ▶ comb hyptis, wild mint; *Spanish*: hierba de burro, xoltexnuk;

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ W Africa: Ghana, Guinea to Cameroon, Ivory Coast, Nigeria; Mexico

Note ▶ In Ivory Coast and Upper Volta it is mixed with various spices (*Aframomum melegueta*, *Zingiber officinalis*, *Piper nigrum*, etc.).

Burkill 3, 1995; Dalziel 1957; Hanelt 2001; Irvine 1948; Malan et al. 1988; Pant et al. 1992; Pereda-Miranda et al. 1993; Uphof 1968

Hyptis spicigera Lam.

Synonyms ▶ *Nepeta americana* Aub.

Common Names ▶ black sesame, black beni seed, bush mint; *Chinese*: suixu changxiang; *German*: Schwarzer Sesam, Buschminze; *Portuguese*: mentrasto

Usage ▶ pot-herb, flavoring (in stews and sauces)

Parts Used ▶ seed (and it is also roasted)

Distribution ▶ Mexico to Brazil, Greater Antilles; widely native in tropical Africa, Madagascar and Asia

Note ▶ Cultivated there for its oily seeds. The plant is used by the Sakalava of Madagascar in the preparation of rum.

Burkill 3, 1995; Dalziel 1957; Erhardt et al. 2002; Irvine 1948; Kini et al. 1993; Kumar 2001; Mors/Rizzini 1961; Mors et al. 2000; Onayade et al. 1990; Pursglove 1968; Rehm/Espig 1996; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Zeven/de Wet 1982

Hyptis suaveolens (L.) Poit.

Synonyms ▶ *Ballota suaveolens* L., *Marrubium indicum* Blanco. non Burm.f.

Common Names ▶ tea-bush, Indian horehound, wild spikenard; *French*: gros baumes, hiptis à odeur, *German*: Indischer Andorn, Wohlriechender Andorn, Buschminze; *Hindi*: bilati tulsi, ganga tulsi; *Indonesian*: lampesan, jukut bau, mangkamang; *Japanese*: nioi-niga-kusa; *Malaysian*: malbar hutan, pokok kemangi; *Mexico*: chíó gorda, chíá grande; *Pilipino*: amotan, suob-kabayo, loko-loko; *Portuguese*: bamburral, mentrasto-grande; *Russian*: issop; *Spanish*: chao, hierba de las muelas, hortela do campo, orégano cimarron; *Thai*: kara, maeng lak kha

Usage ▶ spice, flavoring; **product**: essential oil

Parts Used ▶ shoot tip, leaf

Distribution ▶ native tropical America, naturalized pan-tropical, including SE Asia W Africa, also cultivated in Mexico and India

Note ▶ The plant has a mint flavor.

Ahmed et al. 1994; Arora/Padney 1996; Asekun/Ekundayo 2000; Azevedo et al. 2001; Bourton 1968; Fun/Svendsen 1990a; Guz-

man/Siemonsma 1999; Hanelt 2001; Iwu et al. 1990; Laily Din et al. 1988; Mallavaraou et al. 1993; Misra et al. 1981; Mors/Rizzini 1961; Oyen/Dung 1999; Pant et al. 1992; Schultze-Motel 1986; Täufel et al. 1993; Tucker 1986; Upadhyay et al. 1982; Uphof 1968; Villamar et al. 1994; Wiersema/Léon 1999; Wulff 1987; Zeven/de Wet 1982

HYSSOPUS L. – Hyssop - Lamiaceae (Labiatae)



Hyssopus angustifolius M. Bieb.

➤ *Hyssopus officinalis* L.



Hyssopus anisatus Nutt.

➤ *Agastache foeniculum* (Pursh) Kuntze



Hyssopus cinerascens (Jord. et Fourr.) Brev.

➤ *Hyssopus officinalis* L.



Hyssopus officinalis L.

Synonyms ▶ *Hyssopus angustifolius* M. Bieb., *Hyssopus cinerascens* (Jord. et Fourr.) Brev.

Common Names ▶ hyssop; *Chinese*: shen xiang cao; *French*: hysope, herbe sacrée; *German*: Ysop, Eisop, Isop, Josephskraut, Klosterysop; *Hindi*: jupha; *Italian*: issopo; *Portuguese*: hissopo; *Russian*: issop, issop obyknowennyj, gison, sison, jusefka, sinij sweroboj; *Sanskrit*: jupha; *Spanish*: hisopo, rabillo de gato;

Usage ▶ spice, pot-herb; **product**: essential oil and essence (for liqueurs: e.g. Benedictine, Chartreuse, Kartäuser etc.)

Parts Used ▶ leaf, flowering tops

Distribution ▶ S, C and E Europe, NW Africa, SW Asia: Caucasus, Anatolia, N Iran, to W Himalayas, native in parts of Europe and N America

Note ▶ Polymorphic species.

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 4, 1954; Bilgri/Adam 2000; Bremness 2001; Chalchat et al. 2001b; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Davidson 1999; Erhardt et al. 2002; Fleischhauer 2003; Gerhardt 1981b; Hanelt 2001; Heeger 1956; Hilal et al. 1978; Hiller/Melzig 1999; Hoppe 1949; Joulain/Ragault 1976; Kerrola et al. 1994a; Piccaglia et al. 1999; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Renzini et al. 1999; Roth/Kormann 1997; Schönfelder 2001; Schulz/Stahl-Biskop 1991; Seidemann 1993c; Seidemann/Siebert 1987; Shah 1991; Sha et al. 1986; Sharma 2003; Sharma et al. 1963; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tsankova et al. 1993; Tucker 1986; Ubillos 1989; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

ILLICIUM L. – Star anise - Illiciaceae

Illicium anisatum L.

Synonyms ▶ *Illicium religiosum* Sieb. et Zucc.

Common Names ▶ aniseed tree, bastard star anise, Japanese sacred anise poisonbay; *Chinese*: mang tsao, pa chio ksiang; *French*: anis de Chine, badiane de Chine; *German*: Shikimifrucht, Japanischer Sternanis, Heiliger Sternanis; *Japanese*: shikimi

Usage ▶ spice

Parts Used ▶ fruit, seed

Distribution ▶ Japan, Korea

Note ▶ The fruits are slightly poisonous.

Erhardt et al. 2000, 2002; Hanelt 2001; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Staesche 1972; Teuscher 2003; Uphof 1968; Villamar et al. 1994; Zänglein et al. 1989; Zeven/de Wet 1982

Illicium anisatum Lour.

➤ *Illicium verum* J.D. Hook. f.

Illicium cambodianum Hance

Common Names ▶ Cambodian star anise; *German*: Kam-bodscha Sternanis

Usage ▶ spice (locally); **product**: essential oil (Cambodian star anise oil, Cambodian anise oil)

Parts Used ▶ fruit, seed

Distribution ▶ Cambodia, Vietnam, Laos, Malaysia

Sánchez-Monge/Parellada 1981; Schultze-Motel 1986; Teuscher 2003; Uphof 1968

Illicium floridanum Ellis

Common Names ▶ Florida star anise, purple anise; *German*: Florida Sternanis

Usage ▶ spice; **product**: essential oil (Florida star anise oil, Florida anise oil)

Parts Used ▶ fruit, seed

Distribution ▶ coastal plain of NW Florida to C Alabama, S Mississippi, and SE Louisiana to NE Mexico

Cheers 1997; Tucker/Maciarello 1999

Illicium parviflorum Michx. ex Vent.

Common Names ▶ yellow star anise; *German*: Gelber Sternanis

Usage ▶ spice; **product**: essential oil from the bark and fruits (yellow star anise oil)

Parts Used ▶ fruit, seed

Distribution ▶ C Florida (local and rare)

Note ▶ The essential oil has a high safrole content (over 70 %)

Tucker/Maciarello 1999; Uphof 1968

Illicium religiosum Sieb. et Zucc.

➤ *Illicium anisatum* L.

Illicium stellatum L.

➤ *Illicium verum* Hook.f.

Illicium verum Hook. f.

Synonyms ▶ *Illicium anisatum* Lour, *Illicium stellatum* L., *Badianifera officinarum* Kuntze

Common Names ▶ star anise, Chinese star anise, Chinese anis, badian, Indian anise; *Arabic*: albadyan; *Chinese*: ba jiao hui xian, ta hui hsiang; *Dutch*: sternanijs; *French*: badiane, anis étoilé, anis de la Chine; *German*: Badian, Sternanis, Chinesischer Anis, Indischer Anis, Sibirischer Anis; *Hindi*: chakriphool; *Indonesian*: bunga lawang, adas cina; *Italian*: anice stellato, badiana; *Malaysian*: bunga lawang, adas china; *Pilipino*: sanque, sanke; *Portuguese*: anis de China, anis estrelado; *Russian*: anisowoe derewo, kitajckij anis, swerdstschatj anis, badian, badian tschabrez; *Slovenian*: badián; *Spanish*: anís de China, anís estrellado, badiána, illicium; *Thai*: chin-paetklip, dok chan, poy kak bua; *Turkish*: anason tchini; *Vietnamese*: cay hoy

Usage ▶ spice; **product**: essential oil (star anise oil, anise oil), and anethol

Parts Used ▶ fruit, seed

Distribution ▶ SE China, N Indochina: Laos, Vietnam; Korea, Japan, Taiwan, Hainan, Philippines (cultivated); the plant is not known wild.

Note ▶ Confusion with shikimi fruit (*Illicium anisatum* L.), Japanese star anise is slightly poisonous.

Berger 3, 1952; Bois 1934; Bourton 1968; Cheers 1997; Craze 2002; Cu et al. 1990b; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2000, 2002; Farrell 1985; Guzman/Siemonsma 1999; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Kämpf/Steinegger 1974; Kataoka et al. 1986; Leung 1991; Melchior/Kastner 1974; Morris/Mackley 1999; Norman 1991; Porta et al. 1998; Pruthi 1976; Pschyrembel 1998; Roth/Kormann 1997; Schönfelder 2001; Schröder 1991; Schultze et al. 1990; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tuan/Ilangantileke 1997; Turova et al. 1987; Uhl 2000; Uphof 1968; Villamar et al. 1994; WHO 1990; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zänglein/Schulze 1989; Zänglein et al. 1989; Zeven/de Wet 1982



■ *Illicium verum*, fruits

Imperatoria ostruthium L.

➤ *Peucedanum ostruthium* (L.) W.D.J. Koch

Inga bigemia Willd.

➤ *Pithecellobium bigeminum* (L.) Mart.

Inga dulcis Willd.

➤ *Pithecellobium dulce* (Roxb.) Dunal

INULA L. - Fleabane - Asteraceae (Compositae)

Inula helenium L.

Synonyms ▶ *Aster helenium* Scop., *Aster officinalis* All., *Helenium grandiflorum* Gilib.

Common Names ▶ elecampane, scabwort, velvet dock, yellow starwort; *French*: aromate germanique, grande aunée, enule campane, hélène, inule; *German*: Echter Alant, Helenenwurzel, Oland, Ottwurzel; *Hindi*: pohkarmul; *Italian*: enula campana, elenio, inula; *Korean*: mokhyang; *Portuguese*: enula campana; *Russian*: dewjacil vysokij; *Sanskrit*: puskaramula; *Slovenian*: oman pravý; *Spanish*: énula campana, raíz del moro

Usage ▶ spice; **product**: essential oil

Parts Used ▶ rhizome

Distribution ▶ temperate Asia: Japan, E and SE Europe, native elsewhere

Aichele/Schwegler 4, 1995; Bärtels 1997; Bremness 2001; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Craze 2002; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Gerhardt 1981a; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Newall et al. 1996; Pschyrembel 1998; Schönfelder 2001; Seidemann 1993c; Tucker 1986; Turova et al. 1987; Uphof 1968; Wiersema/León 1999; Wüstenfeld/Haeseler 1964; Wyk et al. 2004; Zeven/de Wet 1982

Inula viscosa (L.) Ait.

Synonyms ▶ *Dittrichia viscosa* (L.) Greut.

Common Names ▶ viscous elecampane, gluey elecampane; *German*: Klebriger Alant

Usage ▶ spice

Common Names ▶ rhizome

Distribution ▶ Mediterranean regions, N Africa, Canary Islands

Bärtels 1997; Hager 5, 1993; Usher 1968

IPHEION Raf. - Spring Starflower - Alliaceae (Liliaceae)

Ipheion uniflorum (Graham) Raf.

Common Names ▶ spring star flower; *French*: iphéion; *German*: Frühlingsstern, Vielblütige Sternblume

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ S Brazil, Argentina, Uruguay

Note ▶ Crushed leaves have a garlic aroma.

Cheers 1997; Erhardt et al. 2002

Ipomoea cymosa Roem. et Schult.

▶ *Merremia umbellata* (L.) Hallier f. *ssp. orientalis* Ooststr.

Ipomoea sinuata Ort.

▶ *Merremia dissecta* (Jacq.) Hall.

IRIS L. - Iris - Iridaceae

Iris florentina L.

▶ *Iris germanica* L. var. *florentina* Dykes

Iris germanica L.

Common Names ▶ flag iris, common iris, German iris, orris; *French*: iris commun, iris d'Allemagne; *German*: Deutsche Schwertlilie, Unechte Veilchenwurzel; *Italian*: giaggiolo, iris

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ SW Europe: Iberia, France, EC Europe, Turkey, Palestine, NW Africa, native in Europe, also cultivated

Note ▶ The plant is frequently cultivated in gardens.

Aichele/Schwergel 5, 1996; Bärtels 1997; Bourton 1968; Charalambous 1994; Cheers 1997; Cohen 1993b; Coiciu/Racz (no year); Dhar/Kalla 1973; Erhardt et al. 2002; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Pschyrembel 1993; Schönfelder 2001; Seidemann 1993c; Small 1997; Usher 1968; Weber 1997; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Iris germanica L. var. *florentina* Dykes

Synonyms ▶ *Iris florentina* L.

Common Names ▶ Florentine iris, orris root; *Dutch*: duitse iris; *French*: iris de Florence; *German*: Deutsche Schwertlilie, Florentinische Schwertlilie, Florentinische Veilchenwurzel, Unechte Veilchenwurzel; *Italian*: giaggiolo ianco; *Portuguese*: iris Florentino; *Spanish*: lirio blanco, lirio de florencia, iris Florentina

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ Europe: Iberia, Slovakia, Croatia, Crete, Cyprus, NW Africa, also cultivated

Aichele/Schwergel 5, 1996; Bärtels 1997; Bourton 1968; Cheers 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Pschyrembel 1998; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Wüstenfeld/Haensel 1964

Ixora L. - Rubiaceae



Ixora coccinea L.

Common Names ► flame-of-the-wood, ixora, Indian ixora, jungle flame; *German*: Dschungelbrand, Scharlachrote Ixorie; *India*: cetti, paranti, rajana, shetti; *Indonesian*: bunga soka; *Malaysian*: pecah periuk, bunga jarum, kaum kopi; *Pilipino*: dwarf santon, santon; *Thai*: khem (general name), khem farang; *Vietnamese*: Đòn

Usage ► flavoring

Parts Used ► flower

Distribution ► India, the Indian Ocean Islands (Madagascar, Seychelles, Comoros, Mascarenes)

Burkill 4, 1997; Engler/Phummai 2000; Erhardt et al. 2002; Gurib-Fakim/Brendler 2004; Plotkin 1994; Uphof 1968



Jambolifera odorata Lour.

➤ *Acronchia odorata* (Lour.) Baill.



Jambolifera resinosa Lour.

➤ *Acronchia pedunculata* (L.) Miq.

JASMINUM L. - Jasmine, Jessamine - Oleaceae



Jasminum floribundum R. Br. ex Fresen

➤ *Jasminum grandiflorum* forma *grandiflorum* (L.) Kobuski



Jasminum grandiflorum L

➤ *Jasminum officinale* L.f. *grandiflorum*



Jasminum humile L.

Common Names ▶ (Indian) yellow jasmine, Italian jasmine; *Chinese*: ai tan chun; *German*: Italienischer Jasmin, Indischer Jasmin, Gelber Jasmin

Usage ▶ flavoring

Parts Used ▶ flower

Distribution ▶ C Asia, Russian Middle Asia, India, SW China, Afghanistan, Myanmar

Chauhan 1999; Erhardt et al. 2002; Sharma 2003; Wiersema/León 1999



Jasminum odoratissimum L.

Common Names ▶ yellow jasmine; *Japanese*: kin-sokei; *German*: Duft-Jasmin, Gelber Jasmin

Usage ▶ spice, flavoring of tea

Parts Used ▶ flower

Distribution ▶ Canary Islands, Madeira, cultivated in S France and Taiwan

Erhardt et al. 2002; Schultze-Motel 1986; Tamagami et al. 2001; Täufel et al. 1993; Trujillo et al. 1996; Uphof 1968



Jasminum officinale L.

Common Names ▶ (common) white jasmine, jessamine; *Chinese*: so-hsing, su fang hua, ye hsi ming; *Dutch*: jasmijnbloesen; *French*: jasmin commun; *German*: Echter Jasmin, Weißer Jasmin; *India*: chamba, chambeli; *Italian*: gelsomino; *Portuguese*: jasmin; *Russian*: shasmin; *Spanish*: jasmón blanco, jazmin blanco;

Usage ▶ spice, flavoring (for tea); **product**: essential oil (perfumery)

Parts Used ▶ flower

Distribution ▶ Himayas, India (Kashmir), SW China, Caucasus; Iran; native S Europe, widely cultivated and sometimes native

Bourton 1968; Cheers 1997; Erhardt et al. 2000, 2002; Grasse 1950; Muller 1965; Schultze-Motel 1986; Seidemann 1993c; Sharma

2003; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982; Zhang et al. 2000;

 Jasminum officinale L. f. *grandiflorum* (L.) Kobuski

Synonyms ▶ *Jasminum floribundum* R. Br. ex Fresen
Common Names ▶ Catalanian jasmine, Italian jasmine, jasmine; *French*: jasmine à grandes fleurs; *German*: Großblütiger Jasmin; *Italian*: gelsomino;
Usage ▶ spice (flavoring); **product**: essential oil
Parts Used ▶ flower
Distribution ▶ SW Arabia, also cultivated

Bourton 1968; Green 1986; Hiller/Melzig 1999; Oyen/Dung 1999; Roth/Kormann 1997; Shiva et al. 2002; Uphof 1968; Zeven/de Wet 1982

 Jasminum paniculatum Roxb.

Common Names ▶ *German*: Rispiger Jasmin
Usage ▶ flavoring of tea
Parts Used ▶ flower
Distribution ▶ temperate China

Uphof 1968

 Jasminum sambac (L.) Ait.

Synonyms ▶ *Nyctanthes sambac* L.
Common Names ▶ Arabian jasmine, biblical jasmine, samba, Tuscan jasmine; *Chinese*: mo li hua; *French*: jasmin d'Arabie; *German*: Arabischer Jasmin, Persischer Jasmin; *India*: bela, moghra, zambac; *Malaysian*: melati, melor; *Pilipino*: kampupot, sampa guita; *Portuguese*: bogarim, jasmin; *Spanish*: jazmín de Arabia; *Thai*: mali laa, mali son, maliwan
Usage ▶ spice, flavoring of tea; **product**: essential oil
Parts Used ▶ flower
Distribution ▶ India, Sri Lanka; widely cultivated in the Tropics
Note ▶ The 'Grand Duke of Tuscany' is a filled sort.

Arora/Pandey 1996; Burkill 4, 1997; Cheers 1997; Engel/Phummai 2000; Erhardt et al. 2002; Ito et al. 2002; Jacquat 1990; Kottogoda

1994; Lewington 1990; Schultze-Motel 1986; Seidemann 1993; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Jatropha heudelotti (Baill.) Pierre ex Pax

▶ *Riciodendron heudelotii* (Baill.) Pierre ex Pax

JUGLANS L. - Walnut - Juglandaceae

 Juglans nigra L.

Common Names ▶ black walnut; *Chinese*: hei-che-tao; *French*: noyer noir, noyer commun; noyer noir d'Amerique; *German*: Schwarze Walnuss, Schwarznuss; *Portuguese*: nogueira preta; *Russian*: orech tschernij; *Spanish*: nogal americano

Usage ▶ flavoring

Parts Used ▶ shell

Distribution ▶ N America: Canada, USA, frequently cultivated

Aichele/Schwegler 2, 1994; Cheers 1997; Davidson 1999; Erhardt et al. 2000, 2002; Erichsen-Brown 1989; Garavel 1960; Hanelt 2001; Lewington 1990; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Juglans regia L.

Common Names ▶ English walnut, Madeira nut, Persian walnut; *Arabian*: joz, naksh souak, zouz; *Chinese*: che-tao, hu tao; *Dutch*: walnoot; *French*: noyer commun; *German*: Echte Walnuss, Welsche Walnuss; *Italian*: noce nostrana, noce comune, noce persiana; *Japanese*: chosen-gurumi; *Korean*: hodunamu; *Portuguese*: nogueira comun; *Russian*: orech grezkij; *Spanish*: escuerno, hoja de nogal, nogal común, nogal inglés

Usage ▶ flavoring in the liquor industry

Parts Used ▶ shell

Distribution ▶ Caucasus, Russia, C Asia, W Asia, India, SE Europe, widely native, elsewhere in temperate regions, Moldavia

Note ▶ Many varieties have been described.

Aichele/Schwegler 2, 1994; Bärtels 1997; Bendel 2002; Born 1991; Bois 1934; Bremness 2001; Çağlarımak 2003; Cheers 1997; Coiciu/Racz (no year); Dastur 1954; Davidson 1999; Debor 1974; Erhardt et al. 2002; Fleisch-hauer 2003; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hoppe 1949; Jensen et al. 2003; Jirovets et al. 1996; Lewington 1990; López et al. 1995; Pschyrembel 1993; Ravai 1992; Schaarschmidt 1988; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Täufel et al. 1993; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

JUNIPERUS L. - Juniper - Cupressaceae

Juniperus communis L.

Common Names ▶ common juniper, juniper; *Dutch*: jeneverboom; *French*: baie de genévre, genévrier (commun); *German*: (Gewöhnlicher) Wacholder, Machandel, Kranawitt, Kronawitt, Kaddig; *Italian*: bacca di ginepro, coccola di ginepro; ginepro comune, ginepro nero; *Portuguese*: zimbreiro; *Russian*: moshshewel'nik, moshshewel'nik obyknovennyj, moshshucha, shenwr'e, bakkaut; *Slovenian*: borievka; *Spanish*: baya de enebro, enebrina, enebro (común), junipero

Usage ▶ spice, flavoring for liqueurs and hard spirits: Gin, Genever etc.; **product**: essential oil

Parts Used ▶ fruit

Distribution ▶ Europe, Turkey, Caucasus, Siberia, Korea, Japan, N Africa: Algeria, Morocco; Alaska, Canada, USA

Note ▶ Falsification with *Juniperus sabina* L.: savin, Spanish savin; French: genévrieri sabine; German: Sadebaum, Stinkwacholder; Russian: moshshewel'nik.

Aichele/Schwegler 2, 1994; Alberts/Muller 2000; Angioni et al. 2003; Berger 3, 1952; Bois 1934; Bourton 1968; Bremness 2001; Caramiello et al. 1995; Chatzopoulou/Katsiotis 1993; Chatzopoulou et al. 2002; Cheers 1997; Coiciu/Racz (no year); Cosentino et al. 2003; Craze 2002; Da Cunha/Roque 1989; Davidson 1999; Duke et al. 2003; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Farrell 1985; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Koukos/Papadopolou 1997; Melchior/Kastner 1974; Morris/Mackley 1999; Newall et al. 1996; Norman 1991; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rafique et al. 1993; Rätsch 1998; Roth/Kormann 1997; Sanchez de Medina et al. 1994; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma

2003; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Stassi et al. 1996; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Wüstenfeld/Haensel 1964; Wyk et al. 2004

Juniperus phoenicea L.

Common Names ▶ Phoenicean juniper; *German*: Phönizischer Wacholder

Usage ▶ spice, flavoring

Parts Used ▶ fruit

Distribution ▶ Europe: Iberia, France; W Turkey, Cyprus, Palestine, NW Africa, Libya

Angioni et al. 2003; Erhardt et al. 2002; Hepper 1992; Schönfelder 2001

Juniperus virginiana L.

Synonyms ▶ *Sabina virginiana* (L.) Ant.

Common Names ▶ Virginian cedar, pencil cedar, eastern red cedar; *German*: Virginianischer Wacholder; *Italian*: gineprodella

Usage ▶ spice, flavoring

Distribution ▶ N America: New Brunswick to Georgia, N Dakota, E Texas

Rehm/Espig 1984; Rätsch 1998; Schultze-Motel 1986; Small 1997; Uphof 1968

Juniperus sabina L.

➤ *Juniperus communis* L.

JUSTICIA L. – Water Willow - Acanthaceae

Justicia gangetica L.

➤ *Asystasia gangetica* (L.) T. Anders

Justicia quinquangularis Koenig ex Roxb.

Common Names ▶ quintuple justicia; *German*: Fünfkantige Justizie; *Portuguese*: justícia

Usage ► pot-herb

Parts Used ► leaf

Distribution ► India

Arora/Padney 1996; Kottegoda 1994

K



Kadsura chinensis Turcz.

► *Schisandra chinensis* Turcz.) Baill.

KAEMPFERIA L. - Kaempferia - Zingiberaceae



Kaempferia aethiopica (Schweinf.) Benth.

► *Siphonochilus aethiopicus* (Schweinf.) B.L. Burtt



Kaempferia galanga L. ■

Synonyms ► *Kaempferia humilis* Salisb., *Kaempferia sessilis* Koenig

Common Names ► East Indian galan(gal), galanga, spice lily, resurrection lily; *German*: Chinesischer Galgant, Gewürzlilie, Kentjur, Thai-Ingwer; *Hindi*: chandra-mula; *India*: achoram, kacholum, kencur, tjekur; *Indonesian*: kencur; *Javanese*: chëkur, chëngkur, këchur; *Malaysian*: cekur; *Pilipino*: disól, dotó, kisól; *Sanskrit*: chandramulika, sugandhavacha; *Thai*: pro hom, waan hom, waan teendin, khiey, krachai; *Vietnamese*: tên đầu

Usage ► spice (flavoring of rice, for samballans, etc.)

Parts Used ► rhizome, leaf

Distribution ► Indian, Sri Lanka; SE Asia: Java, Philippines, New Guinea, Africa: Sudan, also cultivated

Note ► The root powder also used as a perfume in cosmetics, e.g. shampoos.



■ **Kaempferia galanga**: a flowering, b fresh rhizoms

Alberts/Muller 2000; Arora/Pandey 1996; Bois 1934; Burkill 5, 2000; Davidson 1999; Duke/Ayeusu 1985; Duke et al. 2003; Erhardt et al. 2002; Hiller/Melzig 1999; Jacquat 1990; Larsen et al. 1999; Lück 2004; Melchior/Kastner 1974; Norman 1991; Schultze-Motel 1986; Seidemann 1992, 1993c, 1998/2000; Seidemann/Siebert 1987; Sharma 2003; Siewek 1990; Tamaka/Nakao 1976; Tao Duoda 1998; Teuscher 2003; Turova et al. 1987; Uphof 1968; Wealth of India 5, 1959; WHO 1990; Wiersema/León 1999; Wong 1999; Wong et al. 1992; Wu et al. 2000; Yusuf et al. 2002; Zeven/de Wet 1982

Kaempferia humilis Salisb.

➤ *Kaempferia galanga* L.

Kaempferia longa Jacq.

➤ *Kaempferia rotunda* L.

K

Kaempferia ovata Rosc.

➤ *Boesenbergia rotunda* (L.) Mansf.

Kaempferia pandurata Roxb.

➤ *Boesenbergia rotunda* (L.) Mansf.

Kaempferia rotunda L.

➤ *Boesenbergia rotunda* (L.) Mansf.

Kaempferia rotunda L.

Synonyms ▶ *Kaempferia longa* Jacq., *Kaempferia versicolor* Salisb.

Common Names ▶ Chinese: keys, resurrection lily, round-rooted galangale (galangal), tropical lily; *German*: Runde Gewürzlilie, Gefleckte Gewürzlilie, Runder Kentjur; *Hindi*: bhuichampa; *India*: chandramalu; *Javanese*: kentjur; kuntji; *Sanskrit*: bhuchampaca, bhumichampa; *Thai*: kencur, waan hao non, krachai

Usage ▶ spice, flavoring

Parts Used ▶ young root, leaf

Distribution ▶ SE Asia (probably native), cultivated in

numerous tropical Asia countries, e.g. India, Java, Malaysia, Thailand

Note ▶ The roots are also utilized for dyeing and as a sedative.

Cheers 1997; Duke et al. 2003; Erhardt et al. 2002; Hanelt 2001; Kumar 2001; Larsen et al. 1999; Melchior/Kastner 1974; Schultze-Motel 1986; Seidemann 1992, 1993c; Tanaka/Nakao 1976; Tao Duoda 1998; Wiernsema/León 1999; Wong 1999; Yusuf et al. 2002; Zeven/de Wet 1982

Kaempferia sessilis Koenig

➤ *Kaempferia galanga* L.

Kaempferia versicolor Salisb.

➤ *Kaempferia rotunda* L.

KLAINEDOXA Pierre ex Engl. - Irvingiaceae (Simaroubaceae)

Klainedoxa gabonensis Pierre ex Engl.

Common Names ▶ South African pepper tree, mountain sering, (wild) pepper tree; *S Africa*: slaploot, wit sering

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ tropical W Africa: Ivory Coast, Cameroon, Congo, Zaire, Gabon

Bois 1934; Hanelt 1973; Mabberley 1997; Neuwinger 1999; Uphof 1968

Kleinia tagetoides H.B.K.

➤ *Porophyllum tagetoides* (Kunth) DC.

Kochia scoparia (L.) Schrader

➤ *Bassia scoparia* (L.) A.J. Scott

KNEMA Lour. - Myristicaceae

 **Knema bicolor** Rat.

➤ *Knema corticosa* Lour.

 **Knema corticosa** Lour.

Synonyms ▶ *Knema bicolor* Rat., *Myristica corticosa* Hock.f.

Common Names ▶ *French*: muscadier à suif; *German*: Dickrindiger Muskatbaum

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ Indochina, Myanmar, Thailand

Uphof 1968

KOSTELETSKAYA C. Presl. - Malvaceae

 **Kosteletzkaya adoensis** (Hochst.) Masters

Common Names ▶ *German*: Kosteletzkablätter

Usage ▶ flavoring of palm wine

Parts Used ▶ leaf

Distribution ▶ Cameroon, Nigeria, Zaire

Burkill 4, 1997; Hanelt 2001; Neuwinger 1999

KRAMERIA L. ex Loefl. - Krameriaceae

 **Krameria lappacea** (Domb.) Burdet et B.B.

Synonyms ▶ *Krameria triandra* Ruiz et Pav.

Common Names ▶ rhatany, Peruvian rhatany; *French*: kraméria, rhatania; *German*: (Rote) Ratanhia, Payta-Ratanhia; *Italian*: ratanhia; *Spanish*: ratania

Usage ▶ spice (for liqueurs)

Parts Used ▶ root

Distribution ▶ S America: Bolivia, Chile, Peru

Daems 1987; Erhardt et al. 2002; Hoppe 1949, 1, 1975; Rättsch 1998; Uphof 1968; Wüstenfeld/Haensel 1964; Wyk et al. 2004

 **Krameria triandra** Ruiz et Pav.

➤ *Krameria lappacea* (Domb.) Burdet et B.B.

KYLLINGIA Rottb. - Cyperaceae

 **Kyllingia erecta** Schum.

Common Names ▶ greater kyllingia, white kyllingia

Usage ▶ flavoring

Parts Used ▶ rhizome

Distribution ▶ W Africa: the Gambia, Mali, Niger, Senegal, Sierra Leone

Note ▶ The rhizom is aromtic with a rather bitter taste.

Burkill 3, 1995; Dalziel 1957

 **Kyllingia pumila** Michx.

Usage ▶ flavoring

Parts Used ▶ root

Distribution ▶ temperate and tropical America, W Africa: Nigeria

Burkill 3, 1995; Dalziel 1957

 **Kyllingia squamulata** Rhonn.

Usage ▶ flavoring

Parts Used ▶ culm-base

Distribution ▶ W Africa: Senegal, Tanzania, Uganda

Burkill 3, 1995

 **Kyllingia tenuifolia** Steud.

Usage ▶ flavoring

Parts Used ▶ culm-base

Distribution ▶ W Africa: Nigeria

Burkill 3, 1995



Kyllingia umbellata *Rott.*

➤ *Mariscus alternifolia* *Vahl*

LACTARIUS Fr. - Russulaceae

Lactarius helvus (Fr.) Fr.

Common Names ▶ *German*: Maggipilz, Bruchreizker

Usage ▶ flavoring of soups and salads

Parts Used ▶ fruitbodies (pulverized)

Distribution ▶ temperate zones in some countries of Europe

Gerhardt 1995; Klán 1981; Uphof 1968

LACTUCA L. - Lettuce - Asteraceae (Compositae)

Lactuca canadense L.

Common Names ▶ wild Canadian lettuce; *German*: Kana-discher Lattich

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ N America, W Indies

Uphof 1968

Lactuca runcinata DC.

Synonyms ▶ *Lactuca heyneana* DC.

Common Names ▶ *German*: Grobzähniger Lattich

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India

Arora/Pandey 1993

Lagunea orientale (L.)

▶ *Polygonum orientale* L.

Lallemantia iberica (Bieb.) Fisch. Et Mey.

▶ *Dracocephalum ibericum* Bieb.

LAMINARIA J.V. Lamour. - Laminariaceae

Laminaria japonica J. Areschoug

Common Names ▶ kelp; *Chinese*: haidai, tai tai; *German*: Japanischer Blatttang, Japanische Braunalge, Kelp; *Japanese*: ma-konbu, yebisu me, shinori-kombu

Usage ▶ spice; **product**: used for seasoning

Parts Used ▶ thallus, seaweed

Distribution ▶ On the coasts from China to Japan and Europe: Norway and Isle of Man; also cultivated

Note ▶ *Laminaria spec.* used as food and as medicine (iodine) in China for more than 1500 years and has been cultivated in Japan since 1730. In Europa cultivation on the Isle of Man and at the Norwegian fjords.

Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993, Turora et al. 1987

Laminaria saccharina Mart.

➤ *Laminaria japonica* J. Areschoug

Landolphia senegalensis Kotsch. et Peyr.

➤ *Saba senegalensis* (DC.) Pichon

Languas conchigera Burkill

➤ *Alpinia conchigera* Griff.

Languas galanga (L.) Stuntz.

➤ *Alpinia galanga* (L.) Willd.

Languas officinarum (Hance) Farw.

➤ *Alpinia officinarum* Hance

Languas vulgare Koenig

➤ *Alpinia galanga* (L.) Willd.

LANTANA L. - Lantana - Verbenaceae

Lantana aculeata L.

➤ *Lantana camara* L.

Lantana alba Mill.

➤ *Lipkea alba* (Mill.) N.E. Br.

Lantana camara L.

Synonyms ▶ *Camara vulgaris* Benth., *Lantana aculeata* L., *Lantana crocea* Jacq., *Lantana nivea* Vent., *Lantana sanguinea* Medik.

Common Names ▶ lantana, red sage, sherry pie, shrub verbena, wild sage, yellow sage; **Brazil (Portuguese)**: camará, cambará, cambará-de-cheiro, cambará-de-chumu, chumbinho; **Chinese**: ma ying dan, wu se mei; **French**: lantanier; **German**: Wandelröschen; **India**: ghaneri, pulikampa, bara phulanoo, vaneri; **Indonesian**: ta ayam, waung; **Japanese**: rantana, shichi-henge; **Malaysian**: bunga tahi ayam bunga pagar; **Pilipino**: cinco negritos, kantutay, coronitas; **Thai**: phakaa krong; **Vietnamese**: bong oi, tram hoi

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ origin Neotropics; Mexico, tropical America, native Florida, Texas, Hawaii; cultivated in many warm countries, e.g. Sri Lanka

Ahmed et al. 1971; Barua et al. 1971; Burkill 5, 2000; Cheers 1997; Engel/Phummai 2000; Erhardt et al. 2002; Hiller/Melzig 1999; v. Koenen 1996; Kottogoda 1994; Louw 1943, 1948; Mors et al. 2000; Rajendran/Daniel 2002; Ross 1999; Schönfelder 2001; Schultze-Motel 1986; Storrs 1997; Täufel et al. 1993; Uphof 1968; Villamara et al. 1994; Warren 1998

Lantana crocea Jacq.

➤ *Lantana camara* L.

Lantana lilacina Desf.

Common Names ▶ **Brazil (Portuguese)**: cambará rosa; **German**: Lilafarbenes Wandelröschen

Usage ▶ flavoring

Parts Used ▶ leaf, flower

Distribution ▶ Brazil: São Paulo to Rio Grande do Sol

Mors et al. 2000

**Lantana microphylla** Mart.

Common Names ▶ *Brazil* (Portuguese): alecrim-bravo, alecrim-do-campo; *German*: Kleinblättriges Wandelröschen

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ S America: especially Brazil, cultivated in many countries

Uphof 1968

**Lantana nivea** Vent.

▶ *Lantana camara* L.

**Lantana rhodesiensis** Mold.

Common Names ▶ Rhodesian lantana; *German*: Rhodensisches Wandelröschen

Usage ▶ flavoring of foods and milk

Parts Used ▶ leaf, herb

Distribution ▶ W Africa: Ghana, Guinea, Nigeria, Senegal, Sierra Leone

Adegoke et al. 1968; Burkill 5, 2000

**Lantana sanguinea** Medik.

▶ *Lantana camara* L.

**Lantana trifolia** L.

Common Names ▶ three-leaved lantana; *German*: Drei-blättriges Wandelröschen; *Spanish*: orégano

Usage ▶ flavoring of milk und butter

Parts Used ▶ leaf, herb

Distribution ▶ E Africa: Ethiopia

Burkill 3, 1995; Husain et al. 1992; Neuwinger 1999; Rajendran/Daniel 2002; Tucker 1986

**Lapathum vesicarium** (L.) Moench

▶ *Rumex vesicarius* L.

LAPORTEA Gaudich. - Bush nettle - Urticaceae**Laportea crenulata** Gaudich.

Common Names ▶ devil nettle, fever nettle; *German*: Gekerbte Laporte, Gekerbte Strauchnessel

Usage ▶ spice, like coriander fruit

Parts Used ▶ seed

Distribution ▶ India: tropical Himalayas

Arora/Padney 1996

LARREA Cav. - Zygophyllaceae**Larrea glutinosa** Engelm.

▶ *Larrea tridentata* (Sesse et Moç.) Cav. ex DC.

**Larrea mexicana** Moric.

▶ *Larrea tridentata* (Sesse et Moç.) Cav. ex DC.

**Larrea tridentata** (Sesse et Moç.) Cav. ex DC.

Synonyms ▶ *Larrea glutinosa* Engelm., *Larrea mexicana* Moric., *Zygophyllum tridentatum* Sesse et Moç.

Common Names ▶ creosote bush, greasewood; *German*: Kreosotstrauch; *Spanish*: gobernadora, hediondilla, hediondo, paloondo

Usage ▶ condiment

Parts Used ▶ floral-bud

Distribution ▶ SW USA, Mexico

Note ▶ Substitute for capers (*Capparis spinosa* L.).

Bernhard/Thiele 1981; Chirikdjian 1974; Hanelt 2001; Newall et al. 1996; Rättsch 1998; Schultze-Motel 1986; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999

**LASER P. Gaertn., B. Mey. et Scherb. -
Apiaceae (Umbelliferae)** **Laser trilobum** (L.) Borkh.

Synonyms ▶ *Laserpitium trilobum* L., *Siler trilobum* (L.) Crantz

Common Names ▶ laserwort, trivalve; *French*: cumin de chevaux; *German*: Echter Bergkümmel, Rosskümmel, Dreilappiger Rosskümmel; *Turkish*: kefe kimyonu

Usage ▶ spice, condiment

Parts Used ▶ seed

Distribution ▶ Europe: France, Spain, E Europe, Turkey, Lebanon, Caucasus, N Iran

Note ▶ In former times the plant was cultivated as a spice plant in gardens of C Europe.

Aichele/Schwegler 3, 1995; Akgül 1989b; Başer et al. 1993b; Brunke et al. 1991a; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Kivanç/Akgül 1991; Mansfeld 1986; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Täufel et al. 1993; Teuscher 2003

**LASERPITIUM L. - Laserwort -
Apiaceae (Umbelliferae)** **Laserpitium siler** L.

Synonyms ▶ *Siler montanum* Crantz

Common Names ▶ laserwort; *German*: Echter Bergkümmel, Rosskümmel; Berglaserkraut; *Russian*: gladysh

Usage ▶ spice

Parts Used ▶ seed, root (rarely)

Distribution ▶ S Europe, C Europe: mountains

Note ▶ In former times the plant was cultivated as a spice plant in gardens of C Europe mountains. Substitute for caraway (*Carum carvi* L.).

Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hoppe 1949; Uphof 1968

 Laserpitium trilobium L.

▶ *Laser trilobium* (L.) Borkh.

**LASIA Lour. -
Araceae** **Lasia aculeata** Lour

▶ *Lasia spinosa* (L.) Thwaites

 Lasia spinosa (L.) Thwaites

Synonyms ▶ *Lasia aculeata* Lour.

Common Names ▶ Thwaites sampi; *Chinese*: ka guo, re yo; *German*: Dornige Zottelblume; *Indonesian*: ngamling, sambheng; *Malaysian*: bekil, *Sri Lanka*: geli-geli; *Thai*: pa lang

Usage ▶ spice (for fish ponds)

Parts Used ▶ young leaf

Distribution ▶ Sri Lanka, India to China, Himalayas, Malaysia, Indonesia

Burkill 1965; Erhardt et al. 2002; Hanelt 2001; Kumar 2003; Ochse/van de Brinck 1931

**LAURELIA Juss. -
Monimiaceae** **Laurelia aromatica** Juss.

Common Names ▶ Chilean laurel; *German*: Chilenischer Lorbeer

Usage ▶ spice (rarely in Peru)

Parts Used ▶ seed

Distribution ▶ Chile, Peru

Uphof 1968

 Laurelia semperivens (R. et P.) Tul.

Common Names ▶ Chilean nutmeg; *German*: Chilenischer Muskat, Immergrüner Muskat

Usage ▶ spice (rarely)

Parts Used ▶ fruit, seed

Distribution ▶ S America: Chile

Note ▶ Substitute for nutmeg (*Myristica fragrans* Houtt.).

Hager 5, 1993; Hiller/Melzig 1999; Hoffmann et al. 1992; Rättsch 1998; Warburg 1897

LAURENCIA Adans - Rhodomelaceae

Laurencia pinnatifida (Gmel.) Lamour

Common Names ▶ pepper dulce

Usage ▶ condiment

Parts Used ▶ pungent red algae

Distribution ▶ Atlantic Ocean, North Sea

Hanelt 2001; Uphof 1968

Laurocerasus officinalis M. Roem.

▶ *Prunus laurocerasus L.*

LAURUS L. - Bay, Laurel - Lauraceae

Laurus albida Nutt.

▶ *Sassafras albidum (Nutt.) Nees*

Laurus eastivalis L.

▶ *Lindera benzoin (L.) Bl.*

Laurus benzoin L.

▶ *Lindera benzoin (L.) Bl.*

Laurus burmani Nees

▶ *Cinnamomum burmani Nees*

Laurus cassia L.

▶ *Cinnamomum aromaticum Nees*

Laurus cinnamomoides Mutis ex H.B.K.

▶ *Ocotea cymbarum H.B.K.*

Laurus cinnamomum Andr.

▶ *Cinnamomum aromaticum Nees*

Laurus cinnamon L.

▶ *Cinnamomon zeylanicum Bl.*

Laurus cubebea Lour.

▶ *Litsea cubeba (Lour.) Pers.*

Laurus culitlawan L.

▶ *Cinnamomum culitlawan (L.) Kosterm.*

Laurus dulcis Roxb.

▶ *Cinnamomum burmani Bl.*

Laurus nobilis L.

Synonyms ▶ *Laurus undulata* Mill.

Common Names ▶ laurel, bay laurel, sweet bay, noble laurel, Roman laurel, true laurel; *Arabic*: gar, ghâr (fruit); *Chinese*: yue gui zi, yueh kuei; *Dutch*: laurierblad; *French*: laurier common, laurel noble, feuille de laurier; laurier d'Apollon, laurier à jambon; *German*: Lorbeer, Lorbeerblatt, Gewürzlorbeer; *Italian*: alloro poetico, foglia di alloro, lauro poetico, lauro regale; *Japanese*: gekkei ju; *Pilipino*: laurel, paminta dahon; *Portuguese*: loureiro; *Russian*: lawr, lawrowyj list, lawr blagorodnyj; *Spanish*: laurel, hoja de laurel; *Turkish*: defne ağ

Usage ► spice, condiments

Parts Used ► leaf, fruit

Distribution ► E Mediterranean region: Greece, C, E Mediterranean: Turkey, also cultivated

Agkül et al. 1989; Alberts/Muller 2000; Anac 1986; Bärtels 1997; Berger 3, 1952; Bois 1934; Borges et al. 1992; Bourton 1968; Braun/Meier 2002; Bremness 2001; Caredda et al. 2002; Cheers 1997; Clair 1961; Davidson 1999; Diaz-Maroto et al. 2002b; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Heeger 1956, 1992; Hiller/Melzig 1999; Hoffmann et al. 1992; Hogg et al. 1974; Hokwerda et al. 1982; Hoppe 1949; Melchior/Kastner 1974; Morris/Mackley 1999; Nigam et al. 1960; Peter 2001; Pino et al. 1993b; Pochljobkin 1974, 1997; Pruthi 1976; Putievsky et al. 1984; Riaz et al. 1989; Rosen-garten 1969; Sakar/Engelskove 1985; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sfikas 1994; Siewek 1990; Small 1997; Staesche 1972; Tainter/Grenis 1993; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wyk et al. 2004; Zeven/de Wet 1982; Zola et al. 1977



Laurus quixos Lam.

► *Ocotea quixos* (Lam.) Kosterm.



Laurus undulata Mill.

► *Laurus nobilis* L.

LAVANDULA L. - Lavender - Lamiaceae (Labiatae)



Lavandula angustifolia Mill.

Synonyms ► *Lavandula officinalis* Chaix. *Lavandula spica* L., *Lavandula vera* DC.

Common Names ► English lavender, lavender; *Arabic*: khuzama; *Chinese*: xun yi cao; *French*: lavande véritable, lavande vrai; *German*: Lavande, Kleiner Lavendel, Echter Lavendel, Narde; *Italian*: lavanda; *Portuguese*: alfazema; *Russian*: lavanda, lavanda aptetschnaja, zvetnaja trava; *Spanish*: espliego común, flor de lavanda; *Turkish*: lavanta çiçeği

Usage ► spice, especially in Italian and France cuisine, flavoring; **product**: essential oil (lavender oil)

Parts Used ► flower

Distribution ► S Europe: France, Spain, native Crimea;

also cultivated in warm countries of Europe, especially France

Note ► All the cultivars of common lavender are selections of *ssp. angustifolia*.

Agnes/Teisseire 1984; Aichele/Schwegler 4, 1995; Bärtels 1997; Benzinger 1986; Berger 1, 1949; Bilgri/Adam 2000; Boelens 1995; Bournot 1968; Bremness 2001; Charalambous 1994; Chaytor 1937; Cheers 1997; Clair 1961; Clebsch 1997; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Guenther 1954; Hager 5, 1993; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Lalande 1984; Lewington 1990; Meunier 1989, 1992; Ognyanov 1983/94; Oyen/Dung 1999; Pochljobkin 1974, 1977; Pschyrembel 1998; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Siewek 1990; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Tucker/Hensen 1985; Ubillos 1989; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982



Lavandula dentata L.

Common Names ► French lavender; *German*: Französischer Lavendel, Zahnlavendel

Usage ► flavouring; **product**: essential oil

Parts Used ► flower

Distribution ► SW Europe: Spain, Balearic Islands, N Africa; native in Portugal, Italy, Sicily

Erhardt et al. 2002; Hanelt 2001; Small 1997



Lavandula hybrida Reverchon

Common Names ► lavandin, spike lavender; *German*: Lavender, Lavandine

Usage ► flavoring; **product**: essential oil (lavandin oil)

Parts Used ► fresh flower

Distribution ► Mediterranean regions; cultivated: especially S France, Spain, England

Note ► Hybrid from *Lavandula angustifolia* Mill. x *Lavandula latifolia* Medik.

Cheers 1997; Hanelt 2001; Hiller/Melzig 1999; Meunier 1989, 1992; Small 1997



Lavandula incana Salisb.

► *Lavandula stoechas* L.


Lavandula latifolia Medik.

Synonyms ▶ *Lavandula spica* auct., non L.

Common Names ▶ broadleaf lavender, spike lavender, spikenard, broad-leaf lavender; *Dutch*: spijk; *French*: spic, aspic; *German*: Großer Lavendel, Großer Speik, Speik-Lavendel, Spikenarde

Usage ▶ spice, flavoring; **product**: essential oil (spike lavender oil)

Parts Used ▶ flower

Distribution ▶ Europe: Iberia, France, Croatia

Benzinger 1986; Boelens 1986; Ckebsch 1997; Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Meunier 1989, 1992; Pascual et al. 1983, 1989; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Small 1997; Tucker/Hensen 1985; Usher 1968; Zeven/de Wet 1982


Lavandula officinalis Chaix.

▶ *Lavandula angustifolia* Mill.


Lavandula spica auct., non L.

▶ *Lavandula latifolia* Medik.


Lavandula spica L.

▶ *Lavandula angustifolia* Mill.


Lavandula stoechadensis St.-Lag.

▶ *Lavandula stoechas* L.


Lavandula stoechas L.

Synonyms ▶ *Lavandula incana* Salisb., *Lavandula stoechadensis* St.-Lag., *Stoechas arabica* Garsault

Common Names ▶ Arabian lavender, French lavender, Italian lavender, Spanish lavender; *Arabic*: hal-hal, meharga; *French*: stoechas arabique; *German*: Schopf-Lavendel, Welscher Lavendel, Arabischer Lavendel; *Portuguese*: alfazema; *Spanish*: romero santo

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ dry flower and herb

Distribution ▶ Mediterranean regions, C Italy, Dalmatia, N Africa; wild and cultivated in Spain; native S Australia

Hanelt 2001; Heeger 1956; Hepper 1992; Roth/Kormann 1997; Schultze-Motel 1986; Small 1997; Uphof 1968


Lavandula vera DC.

▶ *Lavandula angustifolia* Mill.

LECANIODICUS Planch. ex Benth. - Sapindaceae

Lecaniodicus cupanioides Planch.

Common Names ▶ *Ivory coast*: kringa, sataga

Usage ▶ flavoring (of water)

Parts Used ▶ flower

Distribution ▶ W Africa: Ghana, Ivory Coast, Nigeria, Sierra Leone, Togo

Ayensu 1978; Burkill 5, 2000; Uphof 1968

LEDUM L. - Labrador Tea - Ericaceae

Ledum palustre L.

Synonyms ▶ *Rhododendrum palustre* (L.) Kron et Judd

Common Names ▶ wild rosemary, Labrador tea, marsh tea; *French*: lède, lédier, bois de savane, lédum des marais; *German*: Sumpfporst; Wilder Rosmarin, Brauerkraut, Labradorkraut, Porschkraut, Porst; *Russian*: barul'nik

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ E Asia, Siberia, Russia Far East, E and W Canada, subarctic America, E, C and N Europe

Alberts/Muller 2000; Benoni 2000; Berger 1, 1950; 4, 1954; Erhardt et al. 2002; Erichsen-Brown 1989; Greve 1938; Hager 3, 1992; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Lewington 1990;

Rätsch 1998; Sandermann 1980; Schönfelder 2001; Seidemann 1993b, c; Tattje/Bos 1981; Turova et al. 1987; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004

LENTINUS Fr. - Polyporaceae

Lentinus edodes (Berk.) Sing

Synonyms ▶ *Agaricus edodes* Berk. *Cellus edodes* (Berk.) Ito et Imai; *Cortinellus shiitake* P. Henn., *Lepoita shiitake* Tanaka,

Common Names ▶ *Japanese*: shii-take; *German*: China-pilz, Japanpilz, Pasaniapilz, Shii-take (Pilz)

Usage ▶ spice

Parts Used ▶ mushroom

Distribution ▶ E Asia: Japan, China to Indochina, also cultivated in many countries

Chen/Ho 1986; Hanelt 2001; Laatsch 1992; Liese 1948; Mansfeld 1962; Michael et al 1985; Morita/Kobashi 1966; Schultze-Motel 1986; Seidemann 1993d;

Leontodon taraxacum L.

▶ *Taraxacum officinale* agg. F.H. Wigg.

Leontodon vulgare Lam.

▶ *Taraxacum officinale* agg. F.H. Wigg.

LEOPOLDINIA Mart. - Araceae (Palmae)

Leopoldinia major Wall.

Common Names ▶ *Brazil (Portuguese)*: iará, iará-uaçu, jará-açu, palmeira-iará

Usage ▶ spice

Parts Used ▶ ash from fruits (rarely)

Distribution ▶ S America: Brazil

Note ▶ Certain Indian tribes as a substitute for salt.

Uphof 1968

Lepianthes umbellatum (L.) Raf.

▶ *Piper umbellatum* (L.) Miq.

LEPIDIUM L. - Cress - Brassicaceae (Cruciferae)

Lepidium africanum (Burm.f.) DC. **ssp. divaricatum** (Ait.) Jonsell

Common Names ▶ pepper grass, pepper wort; *German*: Afrikanische Kresse; *S Africa*: kanariesaadgra, peper bossie, sterkkos, sterkgas

Usage ▶ spice

Parts Used ▶ green seed

Distribution ▶ tropical W Africa: Namibia

v. Koenen 1996

Lepidium campstre (L.) R. Br.

Common Names ▶ field cress; *German*: Feldkresse

Usage ▶ pot-herb, spice (rarely)

Parts Used ▶ fresh herb, seed

Distribution ▶ Europe, Turkey, Caucasus, native in N America

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993

Lepidium densiflorum Schrad.

Synonyms ▶ *Lepidium meyenii* Walp

Common Names ▶ common pepper grass, prairie pepper grass, Peruvian ginger; *German*: Dichtblütige Kresse; *Russian*: kress, klopovnik; *Spanish*: maca

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ N America, native C, E Europe

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hager 5, 1993; Loch 1993; Small 1997



Lepidium draba L.

➤ *Cardaria draba* (L.) Drev.



Lepidium fremontii S. Wats

Common Names ▶ desert pepperweed

Usage ▶ flavoring

Parts Used ▶ seed

Distribution ▶ SW USA

Note ▶ Used by the Indians of Arizona for flavoring.

Uphof 1968



Lepidium latifolium L.

Synonyms ▶ *Crucifera latifolia* E.H.L. Krause; *Nasturtium latifolium* Gillet et Magne; *Nasturtium latifolium* (L.) O. Kuntze

Common Names ▶ dittander, perennial peppergrass, poor man's pepper; **French:** grande passerage; **German:** Breitblättrige Kresse, Pfefferkresse, Breitblättriges Pfefferkraut

Usage ▶ pot-herb, spice

Parts Used ▶ fresh herb

Distribution ▶ Europe, Turkey, Caucasus, Iran, W Siberia, C Asia, Himalayas, Tibet, Morocco, Egypt

Aichele/Schwegler 3, 1995; Berger 2, 1950; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Pursglove 1968; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Zeven/de Wet 1982



Lepidium oleraceum Forsk.f.

Common Names ▶ cock's curry grass

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ S New Zealand

Uphof 1968



Lepidium sativum L.

Synonyms ▶ *Crucifera nasturtium* E.H.L. Krause

Common Names ▶ garden cress, land cress, pepper grass, pepperwort; **Arabic:** habb el-yashad, hab erche; carabu; **Chinese:** jia du xing cai; **Dutch:** sterkers, tuinkers; **French:** cresson alénois, cresson de jardin, cressonnette, passerage cultivée; **German:** Gartenkresse, Pfefferkraut, Tellerkresse; **Hindi:** cansur, chausaur, halim; **India:** asadio; **Italian:** lepidio, crescione inglese, crescione di giardino, agretto, nastuerzu ortense; **Japanese:** gaaden kuresu; **Russian:** sabowij kres, kresssalat, kress posevnoj, peretschnik, chreniza, podchrennik; **Sanskrit:** candrasura, candrika; **Spanish:** berro alenois, berro de huerta, berro de tierra, lepidios, mastuerzo de huerta

Usage ▶ pot-herb

Parts Used ▶ fresh leaf

Distribution ▶ Egypt, Sudan, Ethiopia, Arabia, Turkey, Iran, Iraq, Pakistan, Syria, W Himalayas, cultivated worldwide in gardens

Bendel 2002; Berger 4, 1954; Bilgri/Adam 2000; Bremness 2001; Dhar/Dhar 2000; Dudtschenko et al. 1989; Erhardt et al. 2002; Gil/Mac Leod 1980; Hager 5, 1993; Hanelt 2001; Heeger 1956; Herrmann 1997a; Hiller/Melzig 1999; Hondelmann 2002; Jansen 1981; Leroy/Gillet 1964; Pochljobkin 1974, 1977; Schönfelder 2001; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Winter/Willeke 1953a; Zeven/de Wet 1982



Lepidium virginicum L.

Common Names ▶ Virginia pepperweed; **German:** Virginische Kresse

Usage ▶ pot-herb (rarely)

Parts Used ▶ fresh herb

Distribution ▶ N America, native in Europe

Erhardt et al. 2002; Fleischhauer 2003; Small 1997



Lepiota shiitake Tanaka

➤ *Lentinus edodes* (Berk.) Sing.

LEPTOSPERMUM J.R. Forst et G. Forst. - Tea Tree - Myrtaceae



Leptospermum citratum *Challinor, Cheel et Penfold*

Synonyms ▶ *Leptospermum petersonii* F.M. Bailey

Common Names ▶ lemon scented tea, tea tree; *French*: leptosperme; *German*: Zitronenmyrte; *Russian*: leptospermum

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ Guatamala, Kenya, Zaire, Georgia, Australia: NS Wales, Queensland, frequently cultivated

Cheers 1997; Erhardt et al. 2002; Hanelt 2001; Morrison 1958; Uphof 1968; Zeven/Zhukovsky 1975



Leptospermum petersonii *F.M. Bailey*

▶ *Leptospermum citratum* *Challinor*

LEUCANTHEMUM Mill. - Ox-eye Daisy - Asteraceae (Compositae)



Leucanthemum vulgare *Lam.*

Synonyms ▶ *Chrysanthemum leucanthemum* L.

Common Names ▶ dog daisy, moon daisy, ox eye daisy; *French*: grande marguerite, leucanthème; *German*: Wiesenmargerite, Wiesen-Wucherblume; *Russian*: popewnik, niwjanik abyknowennyj, romanška lugiwaja

Usage ▶ pot-herb

Parts Used ▶ young leaf

Distribution ▶ Europe, Turkey, Caucasus, W, E Siberia, Amur, Sakhalin, Kamchatka, native N America

Clebsch 1997; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Schnelle 1999; Uphof 1968; Wiersema/León 1997

LEUCAS R.Br. - Lamiaceae (Labiatae)



Leucas aspera *(Willd.) Link*

Synonyms ▶ *Phlomis aspera* Willd.

Common Names ▶ rough leucas; *Chinese*: feng chao cao; *German*: Rauhes Brandkraut; *India*: kuba

Usage ▶ pot-herb

Parts Used ▶ plant

Distribution ▶ China, India: Gujarat and Rajasthan

Arora/Pandey 1996; Misra et al. 1992, 1993; Pradhan et al. 1990; Seshadr/Nambiar 2003; Singh 2001



Leucas cephalotes *(Koen. ex Roth) Spr.*

Common Names ▶ *German*: Großköpfiges Brandkraut; *Hindi*: dhurpi-sag, goma, motapati

Usage ▶ pot-herb

Parts Used ▶ leaf, young shoots

Distribution ▶ India

Arora/Pandey 1996; Chauhan 1999; Sharma 2003; Singh 2001



Leucas clarkei *Hook.*

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India: in Chota Nagpur in Bihar

Arora/Pandey 1996; Singh 2001



Leucas lanata *Wall. ex Benth.*

Common Names ▶ downy or wooly leucas; *German*: Wolliges Brandkraut

Usage ▶ pot-herb

Parts Used ▶ leaf, young shoots

Distribution ▶ India: in the plains and hills

Arora/Pandey 1996; Sharma 2003; Singh 2001

**Leucas lavandulaefolia** *Ress.*

Synonyms ▶ *Leucas linifolia* (Roth) Spreng., *Phlomis linifolia* Roth

Common Names ▶ line leaf leucas; *Chinese*: xian ye bai rong cao; *German*: Lavendelblättriges Brandkraut; *Hindi*: guma, halkusa, kumbha

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India

Arora/Pandey 1996; Oyen/dung 1999; Singh 2001; Terra 1966

**Leucas linifolia** *Spreng.*

▶ *Leucas lavandulaefolia* *Ress.*

**Leucas maritinicensis** *(Jacq.) Ait.f.*

Common Names ▶ bobbin weed, tumble weed, ovate-leaf leucas; *German*: Martinisches Brandkraut; *Portuguese*: catinga-de-mulata, cordao-de-frade, cordão-de-sao-francisco, paude-praga

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India, trop Africa: Ivory Coast, Nigeria, Senegal, Upper Volta

Arora/Pandey 1996; Burkill 3, 1995; Dalziel 1957; v. Koenen 1996; Mors et al. 2000; Singh 2001

**Leucas mollissima** *Wall. ex Benth.*

Common Names ▶ white felt leucas; *Chinese*: bai rang cao; *German*: Weiches Brandkraut

Usage ▶ pot-herb (by the Santhals)

Parts Used ▶ leaf

Distribution ▶ India: in the plains and hills

Arora/Pandey 1996; Singh 2001

**Leucas zeylanica** *(L.) R. Br.*

Synonyms ▶ *Phlomis zeylanica* L.

Common Names ▶ Ceylon leucas, admiration herb; *Ger-*

man: Ceylanisches Brandkraut; *Chinese*: zhou mian cao, feng wo cao; *Malaysian*: ketumbak, ketumbit

Usage ▶ condiment (in Bali), flavoring

Parts Used ▶ leaf

Distribution ▶ India in the plains and hilly areas of Assam and Peninsular region

Arora/Pandey 1996; Oyen/Dung 1999; Singh 2001; Terra 1966; Uphof 1968

**Leucocasia gigantea** *(Blume ex Hassk.) Schott*

▶ *Colocasia gigantea* *(Blume ex Hassk.) Hook.*

LEVISTICUM Hill. - Lovage - Apiaceae (Umbelliferae)

**Levisticum officinale** *W.D.J. Koch*

Synonyms ▶ *Levisticum persicum* Freyn, *Ligusticum levisticum* L.

Common Names ▶ lovage, garden lovage, bladder seed; *Chinese*: dang gui; *Dutch*: lavas; *French*: livèche, ache de Montagne, céleri vivace; *German*: Liebstöckel, Maggikraut, Großer Eppich, Sauerstockkraut, Stecklaub, Suppenlob; *Italian*: levistico, ligustico, sedano di montagna; *Korean*: me-na-ri; *Portuguese*: levístico; *Russian*: srja, dudotschnik, dudschataja, traba, ljubistok; ljubm, saborinam; *Spanish*: apio de montaña, levistico, ligústico;

Usage ▶ spice; **product**: essential oil (lovage oil)

Parts Used ▶ herb, root, seed

Distribution ▶ Iran, native in Europe, N America

Aichele/Schwegler 3, 1995; Bärtels 1997; Berger 3, 1952; 4, 1954; Bremness 2001; Clair 1961; Coiciu/Racz (no year); Cu et al. 1990a; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Melchior/Kastner 1974; Pochljobkin 1974, 1977; Pruthi 1976; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Toulemonde/Noleau 1988; Tucker 1986; Uhl 2000; Uphof 1968; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

 Levisticum persicum Freyn

➤ *Levisticum officinale* W.D.J. Koch

 Lexarza funebres La Llave

➤ *Quararibea funebris* (La Llave) Vischer

LIATRIS Gaertn. ex Schreb. - Button Snakeroot - Asteraceae (Compositae)

 Liatris odoratissima Willd.

Common Names ▶ blazing stare, button snakeroot, vanillaroot; *French*: liatrie; *German*: Duft-Prachtscharte, Duft-Hirschzunge, Vanillewurz; *Russian*: liatris

Usage ▶ spice, used in the tobacco industry

Parts Used ▶ leaf

Distribution ▶ USA: Virginia to Florida and Louisiana

Berger 2, 1950; Hiller/Melzig 1999; Hoppe 1949; Seidemann 1993c

 Licaria puchury-major (Mart.) Kosterm.

➤ *Ocotea puchury-major* Mart.

 Licaria quixos (Lam.) Kosterm.

➤ *Ocotea quixos* (Lam.) Kosterm.

LIGUSTICUM L. - Lovage - Apiaceae (Umbelliferae)

 Ligusticum acutilobum Sieb. et Zucc

➤ *Angelica acutiloba* (Sieb. et Zucc.) Kitag

 Ligusticum cuminum (L.) Crantz

➤ *Cuminum cyminum* L.

 Ligusticum levisticum L.

➤ *Levisticum officinale* W.D.J. Koch

 Ligusticum monnieri Calest.

➤ *Cnidium monnieri* (L.) Cuss. ex Juss.

 Ligusticum mutellina (L.) Crantz

Synonyms ▶ *Meum mutellina* Gaertn.

Common Names ▶ alpine lovage; *German*: Alpen-Mut-terwurz

Usage ▶ flavoring

Parts Used ▶ root

Distribution ▶ C, S Europe: especially Alpine regions

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Schönfelder 2001; Uphof 1968

 Ligusticum scoticum L.

Common Names ▶ Scotch lovage, northern lovage; *German*: Schottischer Liebstock, Schottische Mutterwurz; *Japanese*: maruba toki; *Russian*: ligusticum scholandskij

Usage ▶ pot-herb (tastes like celery)

Parts Used ▶ herb

Distribution ▶ Far Eastern Russia, Japan, Korea

Erhardt et al. 2002; Facciola 1990; Hanelt 2001; Mabberly 1997; Schultze-Motel 1986; Small 1997; Tucker 1986; Uphof 1968

 Ligusticum tenuissimum (Nakai) kilag

➤ *Angelica tenuissima* Nakai

LILIUM L. - Lily - Liliaceae

 Lilium auratum Lindl.

Synonyms ▶ *Lilium wittei* Suring

Common Names ▶ gold-banded lily, golded-rayed lily of Japan, mountain lily; *French*: lis doré du Japon; *German*: Goldband-Lilie; *Japanese*: yama-yuri; *Russian*: lilija zolotistaja

Usage ▶ spice, flavoring

Parts Used ▶ cooked bulbs

Distribution ▶ Japan, Korea, also cultivated in Japan

Hanelt 2001; Schultze-Motel 1986; Uphof 1968; Zeven /de Wet 1982

Lilium concolor Salisb.

Synonyms ▶ *Lilium sinicum* Lindl.

Common Names ▶ Japanese red star lily, (morning) star lily; *Chinese*: hung hua tsai, hung pai ho, shan tan; *German*: Gleichfarbige Lilie, Morgenstern-Lilie; *Japanese*: ko-hime-yuri; *Russian*: lilija odnocvetnaja

Usage ▶ flavoring

Parts Used ▶ flower, bulb

Distribution ▶ China: Hunan, Hupeh, Yunnan; cultivated worldwide as an ornamental plant

Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c

Lilium lancifolium Thunb.

Synonyms ▶ *Lilium tigrinum* Ker-Gawl.

Common Names ▶ devil lily, tiger lily; *Chinese*: chuan tan; *German*: Tigerlilie, Große Türkenbundlilie; *Japanese*: oni-yuri; *Korean*: chamnari

Usage ▶ flavoring

Parts Used ▶ flower, bulb

Distribution ▶ Japan, Korea, E China; cultivated worldwide as an ornamental plant

Erhardt et al. 2002; Hammer 1997; Heeger 1956; Hiller/Melzig 1999; Seidemann 1993c; Small 1997; Uphof 1968; Zeven/de Wet 1982

Lilium sinense Lindl.

▶ *Lilium concolor* Salisb.

Lilium tigrinum Ker-Gawl.

▶ *Lilium lancifolium* Thunb.

Lilium wittei Suring

▶ *Lilium auratum* Lindl.

LIMNOPHILA R.Br. - Scrophulariaceae

Limnophila aromatica (Lam.) Merrill

Synonyms ▶ *Ambulia aromatica* Lam., *Limnophyla punctata* Bl.

Common Names ▶ *German*: Reisfeldpflanze; *Vietnamese*: phak khayaeng, rau ngó

Usage ▶ pot-herb, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ SE Asia: Malaysia, cultivated: Vietnam, S USA, Hawaii

Arora/Pandey 1996; Hanelt 2000; Kuebal/Tucker 1988; Small 1997; Wiersema/León 1999

Limnophila conferta Benth.

Common Names ▶ *Hindi*: munganari, muchriara

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India

Arora/Pandey 1996

Limnophila gratioloides R.Br

▶ *Limnophila indica* (L.) Druce

Limnophila indica (L.) Druce

Synonyms ▶ *Limnophila gratioloides* R.Br., *Limnophila racemosa* Benth.

Common Names ▶ *German*: Indische Limnophilie; *Hindi*: ambuja, kuttra

Usage ▶ pot-herb (in Himalayas)

Parts Used ▶ leaf

Distribution ▶ India, tropical and subtropical Asia, Australia, Africa

Arora/Padney 1996; Erhardt et al. 2002

Limnophila punctata Bl.

▶ *Limnophily aromatica*

Limnophila racemosa Benth.

▶ *Limnophila indica* (L.) Druce

Limnophila roxborhii auct., non G. Don.

▶ *Limnophila rugosa* (Roth) Merr.

Limnophila rugosa (Roth) Merr.

Synonyms ▶ *Herpestis rugosa* Roth, *Limnophila roxborhii* auct., non G. Don.

Common Names ▶ *Indonesian*: hades, selaseh ayer, selaseh banyu; *Pilipino*: kalao, tala, tara-tara; *Thai*: kachom, om kop; *Vietnamese*: rau om

Usage ▶ condiment; herb is used to perfume

Parts Used ▶ leaf, herb

Distribution ▶ India, S China, Ryukyu Island, SE Asia to Fiji and Samoa

Note ▶ The leaves and stem smell of anise.

Guzman/Siemonsma 1999; Oyen/Dung 1999

Limnophila roxborhii auct., non G. Don

▶ *Limnophila regusa* (Roth) Merr.

Limonia acidissima Houtt.

▶ *Citrus aurantiifolia* (Christm et Panz.) Swingle

Limonia aurantiifolia Christm. et Panz.

▶ *Citrus aurantiifolia* (Christm. et Panz.) Swingle

Limonia crenulata Roxb

▶ *Hesperthusia crenulata* (Roxb.) Roem.

Limonia trichocarpa Hance

▶ *Poncirus trifoliata* (L.) Raf.

Limonia trifolia Burm

▶ *Triphasia trifolia* (Burm.f.) P. Wilson

Limonia trifoliata L.

▶ *Triphasia trifolia* (Burm.f.) P. Wilson

LINDERA Thunb. - Lauraceae

Lindera benzoin (L.) Bl.

Synonyms ▶ *Benzoin aestivale* (L.) Nees, *Laurus aestivalis* L., *Laurus benzoin* L.

Common Names ▶ Benjamin bush, spice bush, wild allspice; *French*: benjoin; *German*: Wohlriechender Fieberstrauch, Gewürzstrauch; *Russian*: bensojnoe

Usage ▶ spice (rarely used of the Cherokee Indians)

Parts Used ▶ leaf

Distribution ▶ E Canada: Ontario; E USA and Kansas, Texas, Florida

Bois 1934; Erhardt et al. 2002; Duke et al. 2003; Tucker 1986; Tucker et al. 1994; Tull 1999; Wofford 1983

LINUM L. - Flax - Linaceae

Linum arvense Neck

➤ *Linum usitatissimum* L.

Linum humile Mill.

➤ *Linum usitatissimum* L.

Linum sativum Hasselqu.

➤ *Linum usitatissimum* L.

Linum usitatissimum L.

Synonyms ▶ *Linum arvense* Neck, *Linum humile* Mill., *Linum sativum* Hasselqu., *Linum utile* Salisb.

Common Names ▶ common flax, crown flax, cultivated flax, flax, linseed; *Arabic*: kettan, ketten; *Chinese*: ya ma zi, chih ma; *Dutch*: vlas; *French*: lin, lin oléifère; grain de lin; *German*: Dreschlein, Flachs, Leinsaat, Öllein, Saat-Lein, Steppenflachs; *Italian*: lino, seme de lino; *Japanese*: ama; *Korean*: ama; *Russian*: ljon kudrjasch; *Spanish*: lino, linaza

Usage ▶ spice, roasted (rarely)

Parts Used ▶ roasted seed

Distribution ▶ cultivated in many countries, especially Canada; native in Iberia, France

Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; 1, 1975; Linke 1983; Schultze-Motel 1986; Turora 1987; Usher 1968; Wyk et al. 2004; Zeven/de Wet 1982

Linum utile Salisb.

➤ *Linum usitatissimum* L.

LIPPIA L. - Verbenaceae

Kintzios 2002

Lippea adoënsis Hochst.

Synonyms ▶ *Lippea grandiflora* Mart. et Schauer

Common Names ▶ Gambia tea bush; *French*: verveine d'Afrique; *German*: Gambia-Teestrauch

Usage ▶ pot-herb, flavoring

Parts Used ▶ leaf

Distribution ▶ tropical W Africa

Note ▶ Used as a tea substitute.

Hanelt 2001; Rabaté 1938; Schultze-Motel 1986; Uphof 1968; Walker 1953; Zeven/de Wet 1982

Lippia alba (Mill.) N.E. Br. ex Britt. et Wils.

Synonyms ▶ *Lantana alba* Mill., *Lippea asperifolia* A. Rich.

Common Names ▶ white oregano; *Brazil (Portuguese)*: alecrim do campo, chá do tabulaeiro, cidrilha, salsa-limão, salva branca; *German*: Anisverbene, Weißer Oregano, Weißer Zitronenstrauch; *Spanish*: aguadiente de Espana, anise verbena; menta americana, salvia americana; anis de Espana, quita dolor

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ in temperate and tropical areas of S America; native, and cultivated

Bahl et al. 2002; Berlin et al. 1974; Craveiro et al. 1981; Dellacassa et al. 1990; Frighetto et al. 1998; Fun/Svendsen 1990b; Gomes et al. 1993; Gurgol do Vale et al. 2002; Hanelt 2001; Matos et al. 1996; Mors et al. 2000; Rajendran/Daniel 2002; Retamar 1994; Schultze-Motel 1986; Siani et al. 2002; Small 1997; Villamar et al. 1994; Zoghbi et al. 1998

Lippea alba Mill.

➤ *Lippea alba* (Mill.) N.E. Br. ex Britt. Et Wils.

 Lipkea amentacea M.E. Jones

➤ *Lipkea graveolens* H.B.K.

 Lipkea asperifolia A. Rich.

➤ *Lipkea alba* (Mill.) N.E. Brown

 Lipkea asperifolia L.C. Rich.

➤ *Lipkea javanica* (Burm.f.) Spreng.

 Lippia berlandieri Schauer

Common Names ▶ epazote; *German*: Berlandier-Oregano

Usage ▶ spice, seasoning

Parts Used ▶ leaf, herb

Distribution ▶ S America, Mexico

Hager 5, 1993; Seidemann/Siebert 1987; Uphof 1968; Yousif et al. 2000

 Lippia citriodora (Lam.) Humb.

➤ *Lipkea triphylla* (L'Hérit.) Kuntze

 Lippia dulcis Trev.

Synonyms ▶ *Phyla scaberrima* (Juss. ex Pers.) Mold.

Common Names ▶ Mexican lipkea, yerba dulce; *German*: Aztekisches Süßkraut, Süßer Oregano, Süßer Zitronenstrauch, Mexikanisches Lippiakraut; *Mexico*: yerba dulce; *Spanish*: hierba dulce oregano, orozuz

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ C America: Mexico to Panama

Berger 4, 1954; Craveiro et al. 1981; Erhardt et al. 2002; Hager 5, 1993; Hiller/Melzig 1999; Hoppe 1949; Lewington 1990; Rosengarten 1969; Schultze-Motel 1986; Small 1997; Uphof 1968; Villamar et al. 1994

 Lipkea grandiflora Mart. et Schauer

➤ *Lipkea adoënsis* Hochst.

 Lippia graveolens H.B.K.

Synonyms ▶ *Lipkea amentacea* M.E. Jones

Common Names ▶ American oregano, Mexican oregano, Mexican sage, mintweed; *French*: origan marjolaine; *German*: Amerikanischer Oregano, Mexikanischer Oregano; *Spanish*: hierba dulce oregano, orégano cimarron

Usage ▶ spice

Parts Used ▶ leaf, herb

Distribution ▶ Mexico, El Salvador, S, C USA, Meso-America

Craveiro et al. 1981; Guzman/Siemonsma 1999; Hager 5, 1993; Melchior/Kastner 1974; Pino et al. 1989b, 1990, 1994; Rosengarten 1969; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Tainter/Grenis 1993; Teuscher 2003; Tucker 1986; Tull 1999; Uphof 1968; Vernin et al. 2001; Villamar et al. 1994

 Lippia javanica (Burm.f.) Spreng.

Synonyms ▶ *Verbena javanica* Burm.f.

Synonyms ▶ *Lipkea asperifolia* L.C. Rich., *Lipkea scabra* Hochst.

Common Names ▶ Java thyme, fever tea, wild sage; *German*: Javanischer Thymian

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ Africa, Java

Rajendran/Daniel 2002; Wiersema/León 1999

 Lippia lupulina Cham.

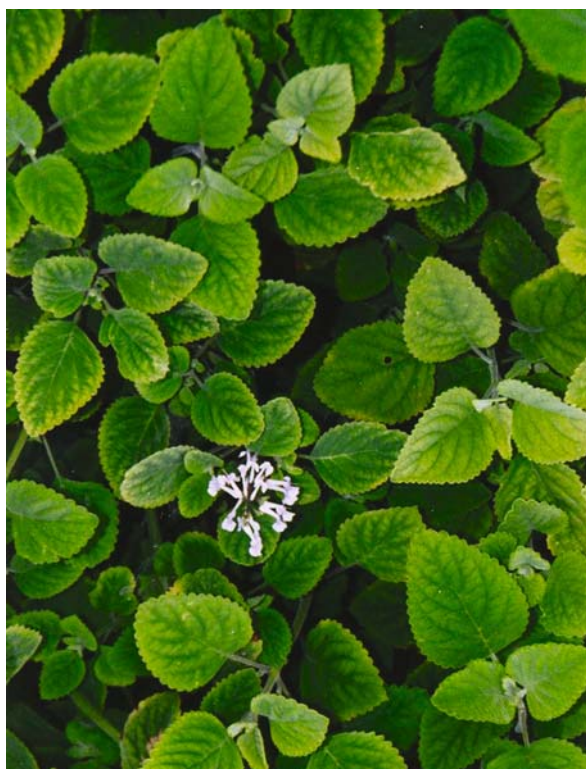
Common Names ▶ hop thyme; *German*: Hopfenthymian

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ S America: Brazil

Gracas et al. 2002



■ **Lippea graveolens**, flowering

Lippia micromera Schauer

Common Names ► Spanish thyme, Puerto Rico oregano;

German: Spanischer Thymian; *Spanish*: orégano del país

Usage ► spice

Parts Used ► leaf, herb

Distribution ► Caribbean, Mexico, S America: Venezuela

Erhardt et al. 2002; Hager 5, 1993; Melchior/Kastner 1974; Seidemann 1993c; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Tucker et al. 1993; Wiersema/León 1999

Lippia multiflora Mold.

Common Names ► Gambian tea bush, *French*: thé de Gambi; *German*: Vielblütiger Organo, Gambia-Teebusch

Usage ► flavoring (partly with fufu and with sesam) for soups

Parts Used ► leaf (fresh and dried)

Distribution ► W Africa: the Gambia, Ghana, Guinea, Ivory Coast, Mali, Nigeria, Senegal, Sierra Leone, Togo, Upper Volta

Ayensu 1978; Burkill 5, 2000; Menut et al. 1995; Pellisier et al. 1994

Lippea scabra Hochst

► *Lippia javanica* (Burm.f.) Spreng.

Lippia triphylla (L'Hérit.) Kuntze

Synonyms ► *Aloysia citriodora* Ortega ex Pers., *Aloysia triphylla* (L'Hérit.) Britton, *Lippia citriodora* (Lam.) Humb., *Verbena triphylla* L'Hérit.

Common Names ► lemon verbena, Mexican majoram, Mexican oregano, cidron, herb Louisa; *Brazil (Portuguese)*: cidrão, cidrilha, cidró, idreira, kerva, salva-limão; *French*: citron(n)elle verveine, verveine citronée, verveine des Indes, verveine odorante, verveine de Pérou, à trois feuilles, lippie, thé arabe; *German*: Mexikanischer Oregano, Echte Verbene, Punschkraut Verbenenkraut, Zitronenverbene, Zitronenstrauch; *Italian*: cedrina, erba cedrella, erba ingia, erba luigia, erba Luisa, limoncina, verbena odorosa; *Russian*: ladannik werbena limonnija; *Spanish*: hierba cidrera, hierba Luisa, kerva cidreira, verbene odorosa

Usage ► spice (meat, fish, pizza), condiment; **product**: essential oil

Parts Used ► leaf, herb

Distribution ► S America: Argentina, Chile, Uruguay; also cultivated in the Tropics, Spain and France

Bärtels 1997; Bellakhadar et al. 1994; Bremness 2001; Calpouzos 1954; Craveiro et al. 1981; Davidson 1999; El-Hamidi et al. 1983; Fleisher/Sneer 1982; Garland 1979; Gurib-Fakim/Brendler 2004; Hager 5, 1993; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Kouhila et al. 2001; Melchior/Kastner 1974; Mikus/Schaser 1995; Mikus et al. 1997; Mors et al. 2000; Newall et al. 1996; Rättsch 1998; Rajendran/Daniel 2002; Rosengarten 1969; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Skaltsa/Shammas 988; Small 1977; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uhl 2000; Uphof 1968; Villamar et al. 1994; Wilkins/Madsen 1991; Wyk et al. 2004; Zeven/de Wet 1982

 Liquiritia lepidota Nutt.

➤ *Glycyrrhiza lepidota* (Nutt.) Pursh

 Liquiritia officinalis Lepesch.

➤ *Glycyrrhiza glabra* L.

 Liquiritia officinarum Medik.

➤ *Glycyrrhiza glabra* L.

 Liriodendron figo Lour.

➤ *Michelia figo* L.

LITSEA Lam. - Lauraceae

 Litsea citrata Bl.

➤ *Litsea cubeba* (Lour.) Pers.

 Litsea cubeba (Lour.) Pers.

Synonyms ▶ *Laurus cubeba* Lour., *Litsea citrata* Bl.

Common Names ▶ mountain pepper, pheasant-pepper;

Chinese: bi cheng que, may chang picheng ch'ieb;

German: Bergpfeffer; *India*: dieng si ing, mejan-keri, sernam, tanghaercherking, terhilsook, zeng jil; *Javanese*: krangejan; *Vietnamese*: khao khinh, man tang, may chang, ta cham diang

Usage ▶ flavoring; **product**: essential oil and citral

Parts Used ▶ fruit

Distribution ▶ China, E Asia, India, Indochina

Bao Yipei 1995; Cheng/Cheng 1983; Gogoi 1997; Hager 5, 1993; Hanelt 2001; Kumar 2003; Lee et al. 1993; Nath et al. 1996b; Oyen/Dung 1999; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968

 Litsea japonica (Thunb.) Juss.

Common Names ▶ *German*: Japanischer Bergpfeffer

Usage ▶ flavoring; **product**: essential oil and citral

Parts Used ▶ fruit

Distribution ▶ Japan, Riukiu Islands, S Korea

Cheng/Cheng 1983; Erhardt et al. 2002; Seidemann 1993c

 Litsea pipericarpa (Miq.) Kosterm.

Synonyms ▶ *Lindera pipericarpa* (Miq.) Boerl., *Polyadenia pepericarpa* Miq.

Common Names ▶ *Indonesian*: kulit antarsa, kulit pulaga;

Japanese: hawa-biwa; *Malaysian*: medang serai

Usage ▶ flavoring

Parts Used ▶ fruit

Distribution ▶ Indonesia (Sumatra), Malaysian Peninsula

Note ▶ The fruits are used medicinally like cubebs (*Piper cubeba* L.f.) as a tonic.

Oyen/Dung 1999; Kostermans 1970

LOBELIA L. - Lobelia - Campanulaceae (Lobelioideae)

 Lobelia alsinoides Lam.

Synonyms ▶ *Lobelia trigona* Roxb.

Common Names ▶ *German*: Hain-Lobelia

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ India: in Chota Nagpur

Arora/Pandey 1996

 Lobelia trigona Roxb.

➤ *Lobelia alsinoides* Lam.

LONCHOCARPUS Kunth - Papilionaceae (Fabaceae)

 **Lonchocarpus caynescens** (Schum. et Thonn.) Benth.

Synonyms ▶ *Lonchocarpus philenoptera* Bentham, *Philenoptera laxiflora* (Guill. et Perrot) G. Roberts

Common Names ▶ African indigo, Yoruba indigo, *German*: Loncho; *Nigerian*: elu, njassi

Usage ▶ couscous spice

Parts Used ▶ leaf

Distribution ▶ C tropical Africa: Senegal to Sudan, Ethiopia, Kenya, Angola

Note ▶ Roots are an intense fish poison.

Ayensu 1978; Burkill 3, 1995; Neuwinger 1998, 1999; Uphof 1968; Wiersema/León 1999

 **Lonchocarpus philenoptera** Bentham

▶ *Lonchocarpus caynescens* (Schum. et Thonn.) Benth.

 **Lophanthus rugosus** Fischer et C.A. Meyer

▶ *Agastache rugosa* (Fischer et C.A. Meyer) Kuntze

LUCUMA Molina - Sapotaceae

 **Lucuma rivicoa** Gaertn.

Synonyms ▶ *Lucuma nervosa* DC.

Common Names ▶ canistel

Usage ▶ spice (in Brazil)

Parts Used ▶ herb

Distribution ▶ C America, West Indies

Uphof 1968

LYCIUM L. - Teaplat - Solanaceae

 **Lycium barbarum** L.

Synonyms ▶ *Lycium vulgare* Dun.

Common Names ▶ barbary wolf berry, box thorn, Duke of Argyll's tea tree, matrimony vine; *Chinese*: Malaysia gou-gi-zi, ning xia gouqi; *French*: lyciet commun; *German*: Gewöhnlicher Bocksdorn, Chinesische Wolfsbeere; *Korean*: tankugijanamu

Usage ▶ pot-herb (in China);

Parts Used ▶ leaf

Distribution ▶ C China, native in Europe, Turkey, Caucasus, N Africa

D'Arcy 1986; Cheers 1997; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Schultze-Motel 1986

LYCOPERSICON Mill. - Tomato - Solanaceae

 **Lycopersicon aethiopicum** (L.) Mill.

▶ *Solanum aethiopicum* L.

 **Lycopersicon esculentum** Mill.

Synonyms ▶ *Lycopersicon lycopersicum* L., *Solanum lycopersicum* L.

Common Names ▶ tomato; *French*: tomate; *German*: Tomate; *Russian*: tomat

Usage ▶ spice: succade; **product**: catshup, chili sauces of ripe fruits

Parts Used ▶ unripened fruit

Distribution ▶ native in S America (Ecuador, Peru), also cultivated worldwide

Note ▶ Substitute for *citrus succade* ("Kandinat T") in the former German Democratic Republic (DDR, E Germany) after enzymatic treatment.

D'Arcy 1986; Bärtels 1997; Hager 5, 1993; Hiller/Melzig 1999; Kumar 2003; Schenck/Naundorf 1966; Seidemann 1993c; Täufel et al. 1993; Uphof 1968; Zeven/de Wet 1982

**Lycopersicon lycopersicum** *L.*

➤ *Lycopersicon esculentum* *Mill.*

Distribution ▶ China, Japan, Indochina

Erhardt et al. 2002; Uphof 1968

**Lyperia atropurpurea** *Benth.*

➤ *Sutera atropurpurea* (Banks) Hiern.

Lysimachia foenum-graecum *Hance*

Usage ▶ condiment

Parts Used ▶ leaf

Distribution ▶ China

Uphof 1968

**Lyperia crocea** *Ecklon*

➤ *Sutera atropurpurea* (Banks) Hiern.

LYSIMACHIA L. - Loosestrife - Primulaceae

**Lysimachia candida** *Lindl.*

➤ *Lysimachia obovata* *Buch-Ham.*

**Lysimachia fortunei** *Maxim.*

Common Names ▶ *German*: Fortuna-Gilbweiderich

Usage ▶ condiment

Parts Used ▶ leaf

Distribution ▶ China, Korea, Japan, Taiwan

Erhardt et al. 2002; Uphof 1968

**Lysimachia clethroides** *Duby*

Common Names ▶ gooseneck loosestrife, clethra, loosestrife; *Chinese*: ai tao; *French*: lysimaque à feuilles de cléthra; *German*: Entenschnabel-Felberich

Usage ▶ condiment (in Tonkin)

Parts Used ▶ leaf

**Lysimachia obovata** *Buch-Ham.*

Synonyms ▶ *Lysimachia candida* Lindl.

Usage ▶ pot-herb, especially in Manipur

Parts Used ▶ herb

Distribution ▶ India

Uphof 1968

M

MACROPIPER Miq. -
Piperaceae **Macropiper exelsium** (*Forster f.*) Miq.

Common Names ▶ peppertree, kawa-kawa; *German*: Ta-hitipfeffer

Usage ▶ spice (locally)

Parts Used ▶ fruit

Distribution ▶ New Zealand

Cheers 1997; Mabberly 1997

MAERUA Forssk. -
Capparaceae **Maerua angolensis** DC.

Common Names ▶ bead bean, bead maerua

Usage ▶ condiment in sauces

Parts Used ▶ leaf

Distribution ▶ W Africa: Upper Volta

Burkill 1, 1985

MAESA Forssk. -
Myrsinaceae **Maesa indica** Wall.

Synonyms ▶ *Baobotry indica* Roxb., *Maesa morsha* Hamilt.

Common Names ▶ Indian maesa; *Chinese*: bao chuang ye; *India*: cu den; *Malaysian*: kasi hutan

Usage ▶ condiment by the Vietnamese

Parts Used ▶ leaf

Distribution ▶ China, India, Vietnam

Hanelt 2001; Uphof 1968

MAGNOLIA L. - Magnolia -
Magnoliaceae **Magnolia figo** DC.

➤ *Michelia figo* L.

 Magnolia glauca L.

➤ *Magnolia virginiana* L.

 Magnolia virginiana L.

Synonyms ▶ *Magnolia glauca* L.

Common Names ▶ laurel Magnolia, swamp laurel, Viri-

gian laurel, Virigian sweet bay; *German*: Sumpf-Magnolie, Blaugrüne Magnolie, Virgianische Magnolie

Usage ▶ spice (sporadically): meat and sauces

Parts Used ▶ leaf

Distribution ▶ NE, SE USA: Florida, Texas

Cheers 1997; Erhardt et al. 2002; Rätsch 1998; Tull 1999

 **Majorana crassa** Moench.

➤ *Origanum syriacum* L.

 **Majorana cretica** Mill.

➤ *Origanum onites* L.

 **Majorana dictamnus** (L.) Kostel.

➤ *Origanum dictamnus* L.

 **Majorana hortensis** Moench.

➤ *Origanum majorana* L.

 **Majorana majorica** (Cambess.) Briq.

➤ *Origanum x majoricum* Cambess.

 **Majorana onites** (L.) Benth.

➤ *Origanum onites* L.

 **Majorana paniculata** (Koch) Spenn.

➤ *Origanum x majoricum* Cambess.

 **Majorana tomentosa** (Moench) Stokes

➤ *Origanum dictamnus* L.

MALVA L. - Mallow - Malvaceae

 **Malva alchemillaefolia** Wall.

➤ *Malva verticillata* L.

 **Malva erecta** Gilib.

➤ *Malva sylvestris* L.

 **Malva mauritiana** L.

➤ *Malva sylvestris* L.

 **Malva meluca** Graeb ex Medw.

➤ *Malva verticillata* L.

 **Malva parviflora** L.

Common Names ▶ cheeseweed, Egyptian mallow, little mallow, small mallow, small-flowered mallow; *Arabic*: kliobbeiza; *French*: grande mauve, mauve à petites, mauve d'Egypte, *German*: Ägyptische Malve, Kleinblütige Malve; *Hindi*: panirak; *Portuguese*: malva

Usage ▶ pot-herb (in India)

Parts Used ▶ plant

Distribution ▶ India, Pakistan, Caucasus, former Soviet middle Asia, Arabia, SE, SW Europe

Arora/Pandey 1996; Hager 5, 1993; Hanelt 2001; v. Koenen 1996; Schultze-Motel 1986; Täufel et. al.; 1993; Villamar et al. 1994; Wiersema/León 1999

 **Malva sylvestris** L.

Synonyms ▶ *Malva erecta* Gilib., *Malva mauritiana* L.

Common Names ▶ blue mallow, cheeses, common mallow, high mallow, tall mallow; *French*: mauve des bois, mauve sauvage, fausse guimauve; *German*: Käsepappel, Rossappel, Gemeine Malve, Wilde

Malve; *Hindi*: gulkhair, kunzi; *Italian*: malva comune; *Japanese*: zeni-aoi; *Korean*: khiauk, mogiyongauk; *Russian*: mal'va lewsnaja, prosvirnik lesnoj; *Spanish*: malva común

Usage ► pot-herb (Himalayas from Kashmir to Kumon)

Parts Used ► plant

Distribution ► Europe, Turkey, Levante, Caucasus, C Asia, Himalayas, N Africa, native in N America, Australia, New Zealand, S America

Arora/Pandey 1996; Clair 1961; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Pschyrembel 1998; Schönfelder 2001; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982



Malva verticillata L.

Synonyms ► *Malva alchemillaefolia* Wall., *Malva meluca* Graeb. ex Medw.

Common Names ► castillan marrow, curled mallow, cheeseweed; *Chinese*: dong kui zi; tung-k'uei; *French*: mauve crépue, mauve verticillée; *German*: Quirl-Malve; *Portuguese*: malva crespá, verdadeira; *Spanish*: malva crespá;

Usage ► condiment (Orient), pot-herb (India, Nilgiris)

Parts Used ► seed (Orient), plant

Distribution ► India: higher hills of NE and Nilgiris, Pakistan, Himalayas, China; cultivated and native elsewhere in temperate regions, e.g. Europe

Arora/Pandey 1996; Davidson 1999; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Heeger 1956; Kumar 2003; Larkcom 1991; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

MAMMAEA L. - Guttiferae



Mammea americana L.

Synonyms ► *Potamocharis mamei* Rottb.

Common Names ► mamee, mamee-apple, mamey, Santo Domingo apricot, South American apricot; *Brazil (Portuguese)*: abricó, abricó do pará; *French*: abricotier d'Amérique, abricotier de Saint

Domingue; *German*: Mammey or Mammi-Apfel, Aprikose von St. Domingo; *Spanish*: mamey, Zapote mamey

Usage ► flavoring, e.g. for liqueurs (Eau de Créole)

Parts Used ► flower

Distribution ► West Indies, southern C America, N coast of S America

Hanelt 2001; Nowak/Schulz 1998; Schultze-Motel 1986; Uphof 1968; Usher 1974



Mammea longifolia Wall.

► *Ochrocarpos longifolius* (Wall.) Benth. et Hook.f.

MANGIFERA L. - Mango - Anacardiaceae



Mangifera ambas Forsk.

► *Mangifera indica L.*



Mangifera domestica Gaertn.

► *Mangifera indica L.*



Mangifera foetida Lour. x Mangifera indica L.

► *Mangifera x odorata Griff.*



Mangifera indica L.

Synonyms ► *Mangifera ambas* Forsk., *Mangifera domestica* Gaertn.

Common Names ► mango, Indian mano; *Arabic*: amba; *Brazil (Portuguese)*: manga; *Dutch*: manga; *French*: manguier, mangué; *German*: Mango; *Hindi*: am; *India*: ambo, mamadi, amchoor, mangga, mannga arum manis, mangga golek; *Italian*: mango; *Japanese*: mangô; *Malaysian*: ampalam, males, mangas mempalam, amchur, pau; *Pilipino*: manga, mangga, mangang-kalabaw, pako; *Portuguese*: manguier-

era; *Russian*: mango, mangowoe; *Sanskrit*: amra, cuta, rasala; *Spanish*: mango; *Thai*: mamuang; *Vietnamese*: xoài;

Usage ▶ saucing agent for curries and chutneys

Parts Used ▶ unripe fruit

Distribution ▶ NE India, N Myanmar; cultivated in tropical Asia, Africa, Brazil

Note ▶ There are about 100 sorts. Amchur, aamchur or amchor is the powdery dry extract from the unripened fruits and this is used in Indian and Thai cuisine as seasoning for meat.

Arora/Pandey 1996; Askar et al. 1981; Bendel 2002; Bose 1985; Cheers 1997; Davidson 1999; Engel/Phummai 2000; Erhardt et al. 2002; Gangolly et al. 1957; Hanelt 2001; Hiller/Melzig 1999; Lewington 1990; Klostermans/Bombard 1993; Kottegoda 1994; Kumar 2003; Mitra et al. 2000; Morris/Mackley 1999; Mukherji 1949; Norman 1991; Pruthi 1976; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Siewek 1990; Sing 1968; Soule 1951; Storrs 1997; Täufel et al. 1993; Uphof 1968; Usher 1974; Verheij/Coronel 1991; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982

Mangifera odorata Griff.

Synonyms ▶ *Mangifera foetida* Lour. x *Mangifera indica* L.

Common Names ▶ kurwini mango, saipan mango; *French*: kuwein, manguier mango; *German*: Duft-Mango; *Indonesian*: bembem; *Malaysian*: kuini, kuwini, kweni, kwini

Usage ▶ spice for curries, chutneys, sauces

Parts Used ▶ green fruit

Distribution ▶ origin Malaysia(?), only cultivated in tropical countries

Note ▶ The fruit has a strongly sour taste.

Erhardt et al. 2000, 2002; Lück 2000; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

Mangifera pinnata J. Koenig ex L.f.

▶ *Spondias pinnata* (J. Koenig ex L.f.) Kurz

Maranta galanga L.

▶ *Alpinia galanga* (L.) Willd.

Maranta malaccensis Burm.

▶ *Alpinia malaccensis* (Burm.) Rosc.

MARASMIUS Fr. - Tricholomataceae (Agariaceae)

Marasmius alliatus Schaeff.

▶ *Marasmius scorodonius* (Schaeff.) Fr.

Marasmius caryophylleus (Schaeff.) Schroet.)

▶ *Marasmius oreades* (Bolt.) Fr.

Marasmius oreades (Bolt.) Fr.

Synonyms ▶ *Marasmius caryophylleus* (Schaeffer) Schroet.

Common Names ▶ fairy ring mushroom; *Dutch*: weidekringzwam; *French*: pied dur, faux mousseron, marasme montagnard, mousseron d'automne, nymphe des montagnes; bouton de guerte; *German*: Echter Krösling, Herbstmousseron, Nagelschwamm, Nelkenschwindling; *Italian*: gambe-secche, marasmio oreade; *Russian*: openok lugovoj, gwozdischnyj grib; *Spanish*: ninfa, cama-sec, crespilla, woxerno

Usage ▶ condiment

Parts Used ▶ mushroom

Distribution ▶ Europe

Singer 1986; Stewart 1978; Uphof 1968; Gmelin et al. 1976; Vidal et al. 1986; Wiersema/León 1999

Marasmius scorodonius (Schaeff.) Fr.

Synonyms ▶ *Marasmius alliatus* Schaeff.

Common Names ▶ garlic marasmius, garlic mushroom, true mousseron, *German*: Echter Mousseron, Knoblauchpilz, Echter Küchenschwindling

Usage ▶ condiment in soups and sauces

Parts Used ▶ mushroom

Distribution ▶ Europe

Farrell et al. 1984; Gmelin et al. 1976; Rapior et al. 1997; Singer 1986; Usher 1968

MARGOTIA Boiss - Apiaceae (Umbelliferae)

Margotia gummifera (Desf.) Lange

Synonyms ▶ *Elaeoselinum gummiferum* Desf.

Common Names ▶ *Spanish*: hinojo bastardo

Usage ▶ spice (rarely)

Parts Used ▶ fruit

Distribution ▶ W Mediterranean regions

MARISCUS Vahl - Cyperaceae

Mariscus alternifolia Vahl

Synonyms ▶ *Kyllingia umbellata* Rottb.

Usage ▶ flavoring

Parts Used ▶ rhizome

Distribution ▶ tropical Africa: the Gambia, Nigeria, Senegal, Sierra Leone to India

Burkill 3, 1995; Hanelt 2001; Irvine 1948; Zeven/Zhukovsky 1975

MARRUBIUM L. - Horehound - Lamiaceae (Labiatae)

Marrubium indicum Thunb. *Non Bum.f*

➤ *Hyptis suaevoleus* (L.) Poiteau

Marrubium vulgare L.

Common Names ▶ common horehound, hoarhound, marvel, white horehound; *Arabic*: marriout, morroubia, umm re-roubia, roubia; *Chinese*: cu xia zhi cao; *French*: marrube blanc, marrube vulgaire; *German*: Gewöhnlicher Andorn, Berghopfen, Weißer Dorant; *Italian*: marrobio, marrubio;



 **Marrubium vulgare, flowering**

Portuguese: marroio; *Russian*: chandra, chandra obyknowennaja; *Spanish*: marrubio blanco, marrubio común, malvarrubia

Usage ▶ spice, flavoring (liqueurs)

Parts Used ▶ leaf

Distribution ▶ Europe, Turkey, Levante, Caucasus, Iran, C Asia, India, N Africa, native N America

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 4, 1954; Bremness 2001; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Henderson/MacCrindle 1969; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hoppe 1949; Kowalewski/Matlawska 1978; Nawwar et al. 1989; Newall et al. 1996; Ochoa/Alonso 1996; Pschyrembel 1998; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004

MARSDENIA R. Br. - Condorvine - Asclepiadaceae

Marsdenia cundurango Rchb.f.

Synonyms ▶ *Marsdenia reichenbachii* Triana;

Common Names ▶ condor plant, condurango, common condorvine, eagle-vine bark; *French*: condurango; *German*: Condurango, Cundurango, Gewöhnlicher Andenwein; *Italian*: condurango, vite aquilina; *Peru*: tucacsillu; *Russian*: kondurango; *Spanish*: condurango blanco

Usage ▶ spice, flavoring (liqueurs)

Parts Used ▶ bark of trunk and branch

Distribution ▶ S America Andes: Columbia, Ecuador, Peru

Note ▶ Earlier frequent listed under *Cundurango*.

Berger 1, 1949; Erhardt et al. 2000, 2002; Hager 5, 1993; Hiller/Melzig 1999; Hohmann et al 2001; Hoppe 1949; Koch 1981; Pschyrembel 1998; Rätsch 1992; Schultze-Motel 1986; Seidemann 1993c; Tschesche/Kohl 1968; Uphof 1968; Wiersema/León 1999; Wolters 1994; Wüstenfeld/Haensel 1964; Wyk et al. 2004

Marsdenia reichenbachii Triana

➤ *Marsdenia cundurango* Rchb.

Marshallia brunoides Less.

➤ *Heterothalamus brunoides* Less.

Massoia aromatica Becc.

➤ *Cryptocaria aromatica* (Becc.) Kosterm.

Maximowiczia chinensis (Turcz.) Rupr.

➤ *Schisandra chinensis* (Turcz.) Baill.

Mayna serica Spreng.

➤ *Xylopia sericea* St. Hil.

MAYTENUS Molina - Celastraceae

Maytenus senegalensis (Lam.) Exell

Synonyms ▶ *Celastrus senegalensis* Lam., *Gymnosporia senegalensis* Loes.

Common Names ▶ confetti tree, red spike thorn

Usage ▶ flavoring (Masai add to soup and broth)

Parts Used ▶ leaf

Distribution ▶ tropical and subtropical Africa: Angola, Cameroon, Ethiopia, the Gambia, Guinea, Kenya, Mali, Niger, Nigeria, Senegal, Somalia, Uganda, Zimbabwe; tropical and subtropical regions of India, Pakistan and Spain

Abraham ert al. 1971; Adegoke et al. 1968; Ayensu 1978; Brünning/Wagner 1978; Burkill 1, 1985; Gomez-Serraillos/Zaragoza 1980; Hager 5, 1993; Hiller/Melzig 1999; v. Koenen 1996; Neuwinger 1998; Usher 1968

MEDIASIA Pimenov - Apiaceae (Umbelliferae)

Mediasia macrophylla (Regel et Schmalh.) Pimenov

Synonyms ▶ *Seseli macrophyllum* Regel et Schmalh.

Common Names ▶ *German*: Großblättrige Mediasie, Pamir; *Russian*: (Usbek.) alkor

Usage ▶ spice, flavoring; **product**: essential oil; for soft drinks

Parts Used ▶ fruit

Distribution ▶ Middle Asia: Altai mountains, Pamir, NE Afghanistan

Hanelt 2001; Rechinger 1987; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993

MEDICAGO L. - Medick - Fabaceae (Leguminosae)

Medicago alba E.H.L. Krause

➤ *Melilotus albus* Medik.

Medicago altissima E.H.L. Krause

➤ *Melilotus altissimus* Thuill.

Medicago corniculata (L.) Trautv.

➤ *Trigonella corniculata* (L.) L.

Medicago denticulata Willd.

➤ *Medicago hispida* Gaertn.

Medicago hispida Gaertn.

Synonyms ▶ *Medicago denticulata* Willd., *Medicago polymorpha* L.

Common Names ▶ toothed bur clover, burr medick; *Chinese*: (nan) mu su; *German*: Rauher or Spanischer Schneckenklee; *Hindi*: maina; *Italian*: trifogliina; *Russian*: ljuzepna

Usage ▶ pot-herb in India

Parts Used ▶ plant

Distribution ▶ India: Himalayas, W Bengal, in Nilgiris and other hills of W Ghats, N India, W Europe, mediterranean countries; native worldwide, ruderal plant in Australia, S Africa

Arora/Pandey 1996; Hanelt 2001; Uphof 1968; Zeven/de Wet 1982

Medicago officinalis E.H. L. Krause

➤ *Melilotus officinalis* Lam.

Medicago polymorpha L.

➤ *Medicago hispida* Gaertn.

MELILOTUS Mill. - Melilot - Fabaceae (Leguminosae)

Melilotus albus Medik.

Synonyms ▶ *Medicago alba* E.H.L. Krause, *Melilotus rugulosa* Willd., *Melilotus vulgaris* Willd., *Sertula alba* O. Kuntze, *Trifolium album* Lois., *Trifolium vulgare* Hayne

Common Names ▶ white melilot, white sweet clover, Bokhara clover, honey clover; *French*: mélilot blanc; *German*: Weißer Steinklee, Bokharaklee; *Portuguese/Spanish*: meliloto blanco

Usage ▶ spice, for herb cheese, condiments; **product**: tobacco sauces, liqueurs

Parts Used ▶ herb

Distribution ▶ N Africa, India, Indochina, Europe, native elsewhere

Note ▶ Still only rare.

Aichele/Schwegler 2, 1994; Dhar/Dhar 2000; Erhardt et al. 2002; Fleischhauer 2003; Hiller/Melzig 1999; Loch 1993; Schnelle 1999; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

Melilotus altissimus Thuill.

Synonyms ▶ *Medicago altissima* E.H.L. Krause, *Melilotus giganteus* Wenderoth, *Melilotus macrorrhizus* (Waldst. et Kit.) Pers., *Melilotus officinalis* Lam., *Trifolium altissimum* Lois

Common Names ▶ tall melilot, tall yellow sweet, clover; *French*: grand méliot, trèfle musqué; *German*: Hoher Steinklee, Bokharaklee, Sumpf-Steinklee; *Italian*: meliloto gigantesco; *Portuguese*: trevo de cheiro; *Spanish*: meliloto gigante, trébol oloroso

Usage ▶ spice (flavoring)

Parts Used ▶ herb

Distribution ▶ Europe, W Siberia (Altai)

Note ▶ Still only rare.

Aichele/Schwegler 2, 1994; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Loch

1993; Pschyrembel 1998; Schnelle 1999; Schönfelder 2001; Stevenson 1969; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Melilotus arvensis Wallr.

➤ *Melilotus officinalis* Lam.

 Melilotus caeruleus Desv.

➤ *Trigonella caerulea* (L.) L.

 Melilotus giganteus Wenderoth

➤ *Melilotus altissimus* Thuill.

 Melilotus macrorrhizus (Waldst. et Kit.) Pers.

➤ *Melilotus altissimus* Thuill.

 Melilotus officinalis Lam.

➤ *Melilotus altissimus* Thuill.

 Melilotus officinalis Lam.

Synonyms ▶ *Medicago officinalis* E.H.L. Krause, *Melilotus arvensis* Wallr., *Melilotus petitpierreanus* Willd., *Sertula arvensis* O. Kuntze, *Trifolium officinalis* L., *Trifolium petitpierreanum* Hayne

Common Names ▶ yellow melilot, yellow sweet clover, field melilot, ripped melilot; **Chinese:** hsun tsao, ling, ling hsiana; **French:** fleurie de mélilot, mélilot officinal, mélilot jaune; **German:** Echter Steinklee, Gelber Steinklee, Honigklee; **Italian:** meliloto giallo, trifoglio cavallino; **Korean:** norangjontongssari, yakjontongssari; **Portuguese:** trevocheiroso; **Russian:** donnik aptetschnyj; **Spanish:** meliloto amarillo, meliloto oficial, cornilla real, trébol dorado, trébol dulce

Usage ▶ spice for herb cheese, condiments; **product:** liqueurs, tobacco, sauces

Parts Used ▶ herb

Distribution ▶ Europe wild widely spread, Caucasus,



 **Melilotus officinalis, flowering**

Iran, W Siberia, C Asia, Tibet, Himalayas, native N America

Note ▶ Still only rare.

Aichele/Schwegler 2, 1994; Ashton/Davies 1962; Berger 4, 1954; Bilgri/Adam 2000; Bremness 2001; Coiciu/Racz (no year); Dombrowicz et al. 1991; Dudtschenko et al. 1989; Ehlers et al 1997; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hohmann et al. 2001; Hoppe 1949; Koschtschejew 1990; Loch 1993; Pschyrembel 1998; Schnelle 1999; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Stevenson 1969; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Wörner/Schreier 1990; Wyk et al. 2004; Zeven/de Wet 1982

 Melilotus petitpierreanus Willd.

➤ *Melilotus officinalis* Lam.

 Melilotus rugulosa Willd.

➤ *Melilotus albus* Medik.

**Melilotus vulgaris** Willd.

➤ *Melilotus albus* Medik.

**Melissa altissima** J.E. Smith

➤ *Melissa officinalis* L.

**Melissa calamintha** L.

➤ *Calamintha nepeta* (L.) Savi

**Melissa grandiflora** L.

➤ *Calamintha grandiflora* (L.) Moench

**Melissa inodora** Bornm.

➤ *Melissa officinalis* L.

**Melissa maxima** Ard.

➤ *Perilla frutescens* (L.) Britton

**Melissa nepeta** L.

➤ *Calamintha nepeta* (L.) Savi

**Melissa officinalis** L.

Synonyms ▶ *Melissa altissima* J.E. Smith, *Melissa inodora* Bornm., *Melissa romana* Mill.

Common Names ▶ (bee) balm, lemon balm, lemon mint, melissa; *Arabic*: louiza, merzizou; *Chinese*: xiang feng hua; *Dutch*: melisse, melissa citroen; *French*: mélisse, mélisse officinale, citronelle, herbe au citron; *German*: Citronelle, Melisse, Zitronenmelisse, Bienenkraut, Herzkraut, Honigblatt; *Italian*:

cedronella, erba limona; *Korean*: kyulhyangphul; *Portuguese*: erba cidreira; *Russian*: melissa, melissa lekarstvennaja, limonajamjata, matotschnik, roewnik, ptschel'nik, papotschnaja trawa; *Spanish*: balsamita major, citraria, melisa, toronjil

Usage ▶ spice, flavoring; **product**: essential oil (melissa oil, oil of balm) for liqueur: Benedictine, Chartreuse, melissa spirit)

Parts Used ▶ leaf, herb

Distribution ▶ N Africa, C and W Asia, Europe, Caucasus, widely cultivated and wild widespread in temperate regions

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 2, 1950; Bomme et al. 2002; Bremness 2001; Brieskorn/Krause 1974; Burgett 1980; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Dorner 1985; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Guzman/Siemonsma 1999; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hefendehl 1970; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hondelmann 2002; Hoppe 1949; Koch-Heitzmann/Schultze 1984, 1988; Mikus/Schaser 1995; Mulkens/Kapetanidis 1988; Pochljobkin 1974, 1977; Pschyrembel 1998; Richter 1993; Roberts 1997; Roth/Kormann 1997; Sarer/Kököl 1991; Schönfelder 2001; Schultze-Motel 1986; Schulze 1989, 1995; Seidemann 1993; Seidemann/Siebert 1987; Staesche 1972; Stobert 1978; Täufel et al. 1993; Teuscher 2003; Titel et al. 1982; Tucker 1986; Ubbilos 1989; Uphof 1968; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zänglein et al. 1995; Zeven/de Wet 1982

**Melissa officinalis** L. var. **altissima** (Sm.) Arcang

Common Names ▶ Crete balm, Crete melissa; *German*: Kreta-Melisse;

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ Mediterranean region, Caucasus

Dawson et al. 1988; Hanelt 2001; Teuscher 2003

**Melissa officinalis** L. var. **hirsuta** Pers.

Common Names ▶ *German*: Rauhaarige Melisse

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ Mediterranean region, Caucasus

Hanelt 2001

 Melissa officinalis L. ssp. parviflora Benth.

Common Names ▶ herb of tempera, small flowered melissa; *German*: Kleinblütige Melisse

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ Himalayas

Hanelt 2001

 Melissa parviflora Benth.

Common Names ▶ small flowered melissa; *German*: Kleinblütige Melisse

Usage ▶ flavoring of food products

Parts Used ▶ leaf, herb

Distribution ▶ temperate Himalayas

Pandey 1990; Small 1997

 Melissa pulegioides L.

➤ *Hedeomea pulegioides (L.) Pers.*

 Melissa romana Mill.

➤ *Melissa officinalis L.*

MELOTHRIA L. - Moccasin Grass - Cucurbitaceae
 Melothria maderaspatana (L.) Cogn.

Synonyms ▶ *Mukia maderaspatana* (L.) M. Roem., *Mukia scabrella* Arn.

Common Names ▶ Madras apple; *German*: Madrasapfel, Madras-Melothrie

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ tropical Africa, Asia, Australia

Arora/Pandey 1996; Erhardt et al. 2002; Uphof 1968

MENTHA L. - Mint - Lamiaceae (Labiatae)

Lawton 2002; Marengo et al. 1991

 Mentha alopecuroides Hull.

Common Names ▶ apple mint, bowl mint; *German*: Apfelminze, Breitblättrige Minze, Zottige Minze;

Usage ▶ flavoring

Parts Used ▶ leaf, herb

Distribution ▶ widely cultivated as a garden plant in Europe

Clement/Forster 1994; Hanelt 2001; Stace 1991; Täufel et al. 1993; Zeven/de Wet 1982

 Mentha aquatica L.

Synonyms ▶ *Mentha hirsuta* Huds.

Common Names ▶ horse mint, marsh mint, water mint;

French: menthe aquatique; *German*: Bachminze, Wassermintze; *Italian*: menta d'acqua; *Russian*: mjata wodjanoja; *Spanish*: hierba buena acuática

Usage ▶ spice (rarely), flavoring; **product**: essential oil (watermint or horsemint oil)

Parts Used ▶ leaf, herb

Distribution ▶ Europe, Turkey, Caucasus, W, C Asia, Africa, N America, native elsewhere

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 2, 1950; Bremness 2001; Clair 1961; Davidson 1999; Dudtschenko et al. 1989; Enríquez/Sand-Jensen 2003; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hondekmann 2002; Hoppe 1949; Roberts 1997; Roberts/Plotto 2002; Rothe/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Ubillos 1989; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Mentha arvensis L.

Common Names ▶ corn mint, field mint, Japanese mint, tulle mint, wild mint; *Chinese*: bo he, po ho, fan ho; *French*: menthe Japon, menthe Brésil, menthe des champs; *German*: Ackermintze, Feldminze, Japanische Minze, Österreichische Minze; *Itali-*

an: menta salvadeca, mentaster; *Malaysian*: daun pudina; *Russian*: mjata polevaja; *Spanish*: menta silvestre, menta japonesa; *Thai*: bai saranae; *Vietnamese*: bac he, buc ha nam

Usage ▶ flavoring; **product**: essential oil (Japanese mint oil, *German*: Japanisches Minzöl, Japanisches Pfefferminzöl, Po-Ho

Parts Used ▶ leaf, herb

Distribution ▶ Europe, Turkey, temperate Asia, N India, Thailand, Cambodia, Laos, Vietnam, Korea, Japan

Aichele/Schwegler 4, 1995; Berger 2, 1950; Bournot 1968; Cheers 1997; Dafferthofer 1981; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Karasawa et al. 1995; Khyong et al. 1983; Kothari/Singh 1994; Peters 1927; Pruthi 1976; Psyhyrembel 1998; Roberts 1997; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Sharma 2003; Shiva et al. 2002; Small 1997; Täufel et al. 1993; Teuscher 2003; Turova et al. 1987; Uhl 2000; Uphof 1968; Villamar et al. 1994; WHO 1990; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

 **Mentha arvensis L. var. piperascens Malinv. ex L.H. Bailey**

▶ *Mentha canadensis L.*

 **Mentha arvensis x M. spicata**

▶ *Mentha x gracilis Sole*

 **Mentha asiatica Borris**

▶ *Mentha longifolia (L.) Nath. var. asiatica (Borris) Rech.f.*

 **Mentha canadensis L.**

Synonyms ▶ *Mentha arvensis* var. *piperascens* Malinv. ex L.H. Bailey

Common Names ▶ Chinese mint, Japanese (pepper) mint, corn mint; *German*: Chinesische Minze, Japanische Minze; *Japanese*: hakka

Usage ▶ spice; **product**: essential oil and pulegon

Parts Used ▶ herb

Distribution ▶ China, E Asia, Russian Far East, Indochina, Malaysia, Canada, USA, widely cultivated

Abad Farooqi et al. 1983; Berger 2, 1950; Bournet 1968; Davidson 1999; Dudtschenko et al. 1989; Duriyaprapan/Britten 1982; Erichsen-Brown 1989; Gašić et al. 1992; Hager 5, 1993; Hanelt 2001; Huet 1972; Lewington 1990; Pichitakul/Sthapitanonda 1977; Piper/Price 1975; Seidemann 1993c; Täufel et al. 1993; Tucker 1986; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982

 **Mentha x cardiaca J. Gerard ex Baker**

▶ *Mentha x gracilis Sole*

 **Mentha citrata Ehrh.**

▶ *Mentha x piperita "citrate"*

 **Mentha x cordifolia Opiz ex Fresen**

Synonyms ▶ *Mentha spicata* L. var. *crispa*

Common Names ▶ Kentucky spearmint; *German*: Kentucky Krauseminze, Herzblättrige Minze; *Spanish*: yerba buena

Usage ▶ flavoring

Parts Used ▶ herb

Distribution ▶ Philippines, Java, cultivated in Thailand

Hanelt 2001; Hiller/Melzig 1999;

 **Mentha crispa L.**

Common Names ▶ garden mint, spearmint; *German*: Gartenminze; Krause Minze; *Portuguese*: hortelã-de-folha-miúda, hortelã-de-panela, hortelã-de-rasteira

Usage ▶ spice, flavoring; **product**: essential oil (spearmint oil; *German*: Krauseminzöl)

Parts Used ▶ herb

Distribution ▶ S America: Brazil, cultivated in C Europe

Dudtschenko et al. 1989; Kil Jin Park et al. 2002; Hoppe 1949; Mors et al. 2000; Traxl 1975

**Mentha x gentilis auct.**➤ *Mentha x gracilis* Sole**Mentha x gracilis** Sole

Synonyms ▶ a hybrid of *M. arvensis* x *M. spicata*; *Mentha x cardiaca* J. Gerard ex Baker; *Mentha x gentilis* auct.

Common Names ▶ Scotch mint, Scotch spearmint, ginger mint, red mint, American apple mint; *Brazil (Portuguese)*: hortelã; *French*: menthe des jardins; *German*: Edelminze, Ingwerminze, Amerikanische Apfelminze; *Spanish*: almoradux;

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ China, E Asia, Russia, Indochina, Malaysia, Canada, USA; widely cultivated

Bremness 2001; Davidson 1999; Erhardt et al. 2002; Heeger 1956; Kothari/Singh 1995; Lewington 1990; Mansfeld 1986; Nagasawa et al. 1975a, b; Small 1997; Surburg/Köpsel 1989; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

**Mentha gratissima** Weber➤ *Mentha x villosa* Huds.**Mentha haplocalyx** (Briq.) Briq.

Common Names ▶ Japanese peppermint; *Chinese*: bo he; *German*: Chinesische or Japanische Minze; *Hindi*: pudina; *Japanese*: hakkar; *Korean*: pakha; *Spanish*: menta japonesa;

Usage ▶ spice, flavoring for cigarettes; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ E, S and SE Asia, New Zealand; after 1945 also grown in C and S America (Cuba, Mexico, Brazil, Argentina), USA, Seychelles, India, Europe, especially Spain and Hungary; in Korea also cultivated

Note ▶ Tamba Yasuyori gives the first mention of the Japanese mint plant under the name “megusa” in 984 AD.

Ding/Sun 1983; Hager 5, 1993; Hanelt 2001; Leung 1991

**Mentha hirsuta** Huds.➤ *Mentha aquatica* L.**Mentha insularis** Req.➤ *Mentha suaveolens* Ehrh.**Mentha incana** Willd.➤ *Mentha longifolia* (L.) Huds.**Mentha longifolia** (L.) Huds.

Synonyms ▶ *Mentha incana* Willd., *Mentha spicata* L. var. *longifolia* L., *Mentha sylvestris* L.

Common Names ▶ biblical mint, silver mint, horse mint; *Chinese*: ou bo he; *German*: Rossmintze, Silberminze, Langblättrige Minze

Usage ▶ spice, flavoring; **product**: essential oil (Scotch spearmint oil; *German*: Grünminzöl)

Parts Used ▶ herb

Distribution ▶ N W Africa, Caucasus, Siberia, W Asia, India, W, S Europe

Aichele/Schwegler 4, 1995; Berger 2, 1950; Bourwieg/Pohl 1973; Burkill 3, 1995; Chauhan 1999; Davidson 1999; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Heeger 1956, 1992; Hiller/Melzig 1999; Hondelmann 2002; Monfared et al. 2002; Small 1997; Roberts 1997; Schönfelder 2001; Schultze-Motel 1986; Sharma 2003; Small 1997; Soulès/Argyriadou 1988; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

**Mentha longifolia** (L.) Huds. var. *asiatica* (Boriss.) Rech.f.

Synonyms ▶ *Mentha asiatica* Borris

Common Names ▶ Asiatic mint; *Dutch*: kruisement; *German*: Asiatische or Langblättrige asiatische Rossmintze; *Zulu*: lohmlauge

Usage ▶ pot-herb (for sweets, yoghurt or chutney); **product**: essential oil.

Parts Used ▶ herb

Distribution ▶ Asia: N India, Mongolia, cultivated in Turkmenistan

Dudtschenko et al. 1989; Hanelt 2001; Jaimand/Rezaee 2002; Karasawa et al. 1995; Wealth of India 6, 1962; Wyk 1997



Mentha longifolia (L.) Huds. var. **wissii**
(Launert) L.E. Codd

Common Names ▶ Cape velvet mint; *German*: Weiche Kap-Minze

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ S Africa: Cape region;

Hanelt 2001; Husain 1992; Roberts 1997



Mentha longifolia (L.) Huds. x **Mentha suaveolens** Ehrh.

▶ *Mentha rotundifolia* (L.) Huds.



Mentha mollis Benth.

▶ *Minostachys mollis* (Benth.) Griseb.



Mentha patrinii Lepech

Common Names ▶ comb mint; *German*: Kamm-Minze

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ temperate Asia, Europe, N America; cultivated in E Europe and Austria

Note ▶ The plant has a peppermint-like flavor.

Lück 2000/4 Täufel et al. 1993



Mentha perilloides Lam.

▶ *Perilla frutescens* (L.) Britt



Mentha x piperita L.

Synonyms ▶ *Mentha x piperita* L. var. *vulgare* Sole

Common Names ▶ peppermint, brandy mint, mint flakes; *Arabic*: na 'an; *Chinese*: la bo he; *French*: menthe anglais, menthe poivrée; *German*: Pfefferminze, Englische Minze, Mutterkraut; *Italian*: menta piperita; *Korean*: huchubakha; *Portuguese*: hortãpimenta; *Russian*: mjata pereznaja, anglijckaja mjata; cholodnaja mjata, cholodjanka; *Spanish*: la menta (inglesa) piperita, hierba Luisa; *Turkish*: nane

Usage ▶ spice, flavoring; **product**: essential oil (peppermint oil) and menthol

Parts Used ▶ leaf, herb

Distribution ▶ origin in England, cultivated worldwide

Note ▶ The English pharmacist R. Ray gave the first mention of the peppermint plant in England in 1696.

Aichele/Schwegler 4, 1995; Amelunxen/Intert 1993; Bachthaler et al. 1976; Bärtels 1997; Berger 2, 1950; Bois 1934; Bournot 1968; Bouverat-Bernier 1992; Bremness 2001; Chalchat et al. 1997; Cheers 1997; Chialva 1993; Clair 1961; Clark/Menary 1979; Coiciu/Racz (no year); Court et al. 1993; Daffertshofer 1981; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Erichsen-Brown 1989; Faleyx/Howland 1980; Farrell 1985; Franz et al. 1984; Frerot et al. 2002; Gal-le-Hoffmann/König 1998; Gasic et al. 1987; Grahle/Höltzel 1963; Guedon/Pasquier 1994; Gulati et al. 1975; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hefendehl 1962; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hözl et al. 1974; Hoppe 1949; Karasawa et al. 1995; Kolak et al. 2001; Lawrence et al. 1986; 1989; Leung 1991; Lewington 1990; Maffei 1999; Melzer 1994; Pank et al. 1994; Peters 1927; Petry 1993; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Reverchon et al. 1994; Ringuet et al. 2003; Rissanen et al. 2002; Roberts 1997; Rohloff 1999; Rojahn et al. 1977; Roth/Kormann 1997; Saha et al. 1986; Schönfelder 2001; Schultze-Motel 1986; Schulz/Krüger 1999; Seidemann 1993; Seidemann/Siebert 1987; Seitz 1982; Sharma 2003; Shiva et al. 2002; Shotipruk et al. 2001; Small 1997; Stahn/Bomme 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Turova et al. 1987; Ubillos 1989; Uhl 2000; Uphof 1968; Voirin et al. 1990; Walker/Berattie 1980; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982



Mentha x piperita 'citrate'

Synonyms ▶ *Mentha x piperita* L. var. *citrate* (Ehrh.) Brig.

Common Names ▶ bergamot mint, eau de Cologne mint, lemon mint, orange mint; *French*: Eau d' Cologne

menthe; *German*: Bergamotminze, Kölnisch-Wasser-Minze, Limonenminze, Orangenminze; *Spanish*: yerba buena

Usage ▶ flavoring; **product**: essential oil (lemon mint oil; *German*: Zitronenminzöl) for liqueurs

Parts Used ▶ fresh leaf

Distribution ▶ widely cultivated and sometimes native, cultivated: Italy, USA, Brazil

Berger 2, 1950; Erhardt et al. 2002; Hiller/Melzig 1999; Hoffmann et al. 1992; Mikus/Schaser 1995; Ochoa/Alonso 1996; Roberts 1997; Sartoratto/Augusto 2003; Schultze-Motel 1986; Shiva et al. 2002; Srinivasan et al. 1981; Täufel et al. 1993; Teuscher 2003; Villamar et al. 1994; Wiersema/León 1999

***Mentha x piperita* L. var. *citrata* (Ehrh.) Brig.**

➤ *Mentha x piperita* L. 'citrata'

***Mentha pulegium* L.**

Common Names ▶ English mint, European pennyroyal, pennyroyal (mint), pudding grass; *Arabic*: habaq, flayou, fliou, fulayya, fulayha; *Chinese*: chun ce bo he; *French*: baume petit, herbe aux puces, menthe pouliot, pouliot; *German*: Poleiminze, Hirschminze, Flohkraut; *Italian*: menta puleggia, menta poggio, menta pulezzo, menta romana; *Portuguese*: poejo; *Spanish*: póleo, póleo omún, póleo negro;

Usage ▶ flavoring; **product**: essential oil (pennyroyal [mint] oil) and pulegon

Parts Used ▶ leaf, herb

Distribution ▶ N Africa, Caucasus, C and W Asia, Europe; cultivated elsewhere

Aichele/Schwegler 4, 1995; Akhila/Banthorpe 1980; Bärtels 1997; Bournot 1968; Bremness 2001; Cheers 1997; Clair 1961; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Kokkini et al. 2002; Peters 1927; Schönfelder 2001; Small 1997; Roberts 1997; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993; Teuscher 2003; Tucker 1986; Ubillos 1989; Uphof 1968; Villamar et al. 1994; Wyk et al. 2004; Zeven/de Wet 1982

***Mentha requienii* Benth.**

Common Names ▶ Corsican mint, Spanish mint, menthella; *French*: crème de menthe; *German*: Korsische Minze, Kriechende Minze, Spanische Minze; *Italian*: mentha di requien

Usage ▶ flavoring (locally)

Parts Used ▶ leaf, herb

Distribution ▶ SE and SW Europe: Corsica, Sardinia, Monte Cristo

Bremness 2001; Davidson 1999; Erhardt et al. 2002; Mucciarelli/Sacco 1999; Roberts 1997; Small 1997; Teuscher 2003; Wiersema/León 1999

***Mentha rotundifolia* auct.**

➤ *Mentha suaveolens* Ehrh.

***Mentha x rotundifolia* (L.) Huds.**

Synonyms ▶ *Mentha longifolia* (L.) Huds. x *Mentha suaveolens* Ehrh.

Common Names ▶ false apple mint, round-leaved mint; *French*: menthe rorondefeuillée; *German*: Apfelminze, Rundblättrige Minze; *Russian*: mjata jablotschnaja, mjata krugolistaja, mjata egipetskaja, dikij bal'sam; *Spanish*: matapulgas

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ Europe

Note ▶ The cultivar *Variegata* is an especially pretty plant, used to decorate salads and known as a pineapple mint.

Berger 2, 1950; Heeger 1956; Herklots 1972; Hoffmann et al. 1992; Nagell/Hefendehl 1972; Polochljobkin 1974, 1977; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Uphof 1968; Villamar et al. 1994; Zeven/de Wet 1982

***Mentha sachalinensis* (Briq.) Kudo**

Common Names ▶ Sakhalin mint; *Chinese*: dong bei bo he; *German*: Sachalinminze

Usage ▶ spice

Parts Used ▶ herb

Distribution ► E Russia: Sakhalin Island, Norway

Rohloff 2002



Mentha x smithiana R.A. Graham

Common Names ► red mint, bergamot mint; *German*: Rote Minze, Bergamotminze

Usage ► spice, flavoring

Parts Used ► leaf, herb

Distribution ► native British Isle, in SW, C and EC Europe

Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Small 1997; Zeven/de Wet 1982



Mentha spicata L.

Synonyms ► *Mentha viridis* (L.) L.

Common Names ► crisp mint, garden mint, spearmint, green mint, lamb mint; *Arabic*: hana, nemdar na'na'; *Chinese*: liu lan xiang, xiang hua cai; *French*: menthe verte, menthe douce, menthe en épi, menthe de Notre-Dame, menthe crépu; *German*: Ährige Minze, Grüne Minze, Krauseminze, Grüne Rossmintze, Marokkanische Minze; *Hindi*: pahari pudina, pudina; *India*: fudina; *Italian*: menta verde, menta gentile, menta romana, menta crespia; *Japanese*: midori-hakkada; *Korean*: rokpakha; *Portuguese*: hortelã, hortelã comun, hortelã verde; *Russian*: mjata kudrjawaja, nemzkaja mjata, kurtschabaja mjata, lugowaja mjata; *Spanish*: hierba buena, hierba santa, hierba sana mentha, menta romana, mentha crespia

Usage ► spice, flavoring (locally); **product**: essential oil

Parts Used ► leaf, herb

Distribution ► N Africa, W Asia, SE Europe; native in N temperate regions; cultivated: China, India, Russia, England, USA

Aggarwal et al. 2002; Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 2, 1950; Bournot 1968; Bremness 2001; Cheers 1997; Clair 1961; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Farrell 1985; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Herklots 1972; Hiller/Melzig 1999; Hondelmann 2002; Jirovetz et al. 2003; Kokkini/Vokou 1989; Kouhila et al. 2001; Leung 1991; Lewington 1990; Maffei et al. 1986; Misra et al. 1989; Ochoa/Alonso 1996; Peters 1927; Pino et al. 2001;

Platin et al. 1994; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rosengarten 1969; Roth/Kormann 1997; Sartoratto/Augusto 2003; Satyanarayana et al. 2001; Schönfelder 2001; Schultze-Motel 1986; Schulz/Krüger 1999; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uhl 2000; Uphof 1968; Villamar et al. 1994; Warren 1997; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982



Mentha spicata L. x *Mentha suaveolens*

Ehrh.

► *Mentha x villosa* Huds.



Mentha spicata L. var. *crispa*

► *Menthax cordifolia* Opitz ex Fresen



Mentha spicata L. var. *longifolia* L.

► *Mentha longifolia* (L.) Huds.



Mentha suaveolens Ehrh.

Synonyms ► *Mentha insularis* Req., *Mentha rotundifolia* auct.

Common Names ► apple mint, pineapple mint, round-leaved mint; *German*: Ananas- or Apfelminze, Rundblättrige Minze, Süßminze; *Spanish*: mas-tranzo

Usage ► pot-herb, flavoring (locally)

Parts Used ► leaf, herb

Distribution ► N Africa, W Asia, SW Europe native elsewhere

Aichele/Schwegler 4, 1995; Bärtels 1997; Bremness 2001; Cheers 1997; Davidson 1999; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Villamar et al. 1994; Warren 1997; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982



Mentha sylvestris L.

► *Mentha longifolia* (L.) Huds.

Mentha x villosa Huds.

Synonyms ► *Mentha gratissima* Weber, *Mentha spicata* L. x *Mentha suaveolens* Ehrh.

Common Names ► bowl mint, apple mint, wooly mint; *Arabian*: mersita, timersidi, timersat; *Chinese*: yang ye bo he; *German*: Ananasminze, Bowlenminze, Breitblättrige Minze, Hainminze, Fuchsschwanz-Minze

Usage ► spice, flavoring, pot-herb

Parts Used ► leaf

Distribution ► S and W Europe, frequent cultivated: England

Note ► The species is a morphological variable.

Bremness 2001; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Mansfeld 1986; de Pooter/Schamp 1987; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Teuscher 2003; Zeven/de Wet 1982

Mentha viridis (L.) L.

► *Mentha spicata* L.



■ **Menyanthes trifoliata**, flowering

Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Newall et al. 1996; Pschyrembel 1998; Schnelle 1999; Schönfelder 2001; Seidemann 1993c; Sharma 2003; Turova et al. 1987; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004

MENYANTHES L. - Bogbean, Marsh Trefoil - Menyanthaceae

Menyanthes trifoliata L. ■

Common Names ► bogbean, bogmyrtle, buckbean, marsh-clover, marsh-trefoil, water trefoil; *Chinese*: shi cai, shui cai, ming tsai, tsui tsao; *French*: trèfle d'eau, ményanthe trifolié; *German*: Biberklee; Dreiblatt, Dreiblättriger Bitterklee, Fieberklee, Sumpfklee, Zottelblume, Zottenblume; *Italian*: menianto, trifoglio d'acqua, trifoglio fibrino; *Russian*: vachta trilistnaja, trifol'; *Spanish*: trébol de acuático

Usage ► spice (flavoring); **product**: liqueurs

Parts Used ► leaf

Distribution ► C, N and E Europe, Siberia; E Canada, subarctic America

Aichele/Schwegler 3, 1995; Berger 2, 1950; Cheers 1997; Coiciu/Racz (no year); Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Giaceri 1972; Heeger 1956;

MERCURIALIS L. - Mercury - Euphorbiaceae

Mercurialis annua L.

Common Names ► annual mercury, herb mercury, French mercury; *Arabic*: mourkeba, halhub, bou zenzir; *French*: foirolle, ramberge; *German*: Einjähriges Bingelkraut, Garten-Bingelkraut; *Russian*: proljesnik

Usage ► pot-herb (rarely)

Parts Used ► leaf

Distribution ► SE Europe, Turkey, Levante, Caucasus, Canary Islands, N Africa, W Asia; in Europe also cultivated earlier

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Sánchez-Monga 1951; Schönfelder 2001; Schultze-Motel 1986; Wiersema/Léon 1999

MERIANDRA Benth. - Lamiaceae (Labiatae)

 **Meriandra bengalensis** (*Konja ex Roxb.*)
Benth.

Synonyms ▶ *Salvia bengaliensis* König ex Roxb.

Common Names ▶ Bengal sage; *German*: Bengalischer Salbei; *Hindi*: kafurkapat

Usage ▶ flavoring

Parts Used ▶ leaf, herb

Distribution ▶ Ethiopia, Eritrea, native in the Indian Peninsula

Chopra et al. 1956, Hanelt 2001; Kumar 2003; Schultze-Motel 1986; Teuscher 2003; Torre et al. 1992; Wealth of India 6, 1962

MERREMIA Dennst. ex Endl. - Convolvulaceae

 **Merremia dissecta** (Jacq.) Hall. f.

Synonyms ▶ *Convolvulus dissectus* Jacq., *Ipomoea sinuata* Ort.

Common Names ▶ alamo vine, dissected merremia; *Chinese*: duo lie huang cao; *German*: Queensland-Holzrose, Zerschlitze Merremie

Usage ▶ flavoring, liqueurs, cake

Parts Used ▶ leaf (dry)

Note ▶ The plant has a bitter almond oil flavor.

Distribution ▶ S America, USA: SE, Texas, Florida; French Antilles, Guadeloupe; cultivated in India

Dragendorff 1898; Hanelt 2001; Hoppe 3 1987; Schultze-Motel 1986; Seidemann 1993c

 **Merremia emarginata** (Burm.f.) Hallier

Common Names ▶ emarginate merremia; *Chinese*: shen ye shan zhu cai; *German*: Emporstrebende Merremie

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ Peninsular India

Arora/Pandey 1996

 **Merremia umbellata** (L.) Hallier f. **ssp. orientalis** Ooststr.

Synonyms ▶ *Ipomoea cymosa* Roem. et Schult.

Common Names ▶ *German*: Kleindoldige Merremie

Usage ▶ pot-herb (by Santhals)

Parts Used ▶ leaf

Distribution ▶ India

Arora/Pandey 1996

MERTENSIA Roth - Bluebell - Boraginaceae

 **Mertensia maritima** (L.) Gray

Common Names ▶ oyster plant, sea smooth lungwort, gromwell; *German*: Austernpflanze, Meer-Mertensie; *Russian*: mertensija

Usage ▶ pot-herb for salads, raw vegetables, spread

Parts Used ▶ frish herb

Distribution ▶ Europe: British Isles, Scandinavia, N Russia, E Siberia, Amur, Sachalin, kamschatka, Korea, Japan

Erhardt 2000, 2002; Teuscher 2003; Uphof 1968

MESSERSCHMIDIA Hebenstr. - Boraginaceae

 **Messerschmidia argentea** (L.f.) Johnston

Synonyms ▶ *Tournefortia argentea* L. f.

Common Names ▶ velvet; *German*: Silber-Messerschmidie;

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ tropical Asia, India: Nicobar Island

Note ▶ The plant has a parsley-like aroma.

Arora/Pandey 1996; Hanelt 2001; Uphof 1968; Zeven/de Wet 1982; Zeven/Zhukovski 1975

MEUM Mill. - Spignel - Apiaceae (Umbelliferae)

Meum athamanticum Jacq.

Common Names ▶ baldmoney, bearwort, meu, spignel; *French*: baudremoine, cistre, fenouil des Alpes, meum; *German*: Bärwurz, Bärenfenchel, Bärkümmel, Dillblattwurz, Köppernickel; *Italian*: finocchio alpino, finochiello, meo; *Russian*: meum atamanskij; *Spanish*: finocha alpino

Usage ▶ spice, for herb spirits and liqueurs

Parts Used ▶ root

Distribution ▶ E, C European mountains

Aichele/Schwegler 3, 1995; Brandt/Schultze 1995; Cheers 1997; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hiller/Melzig 1999; Hoppe 1949; König et al. 1996; Melchior/Karsten 1974; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c, 1995b; Stahl/Bohrmann 1967; Täufel et al. 1993; Uphof 1968; Walther 1969; Zeven/de Wet 1982

Meum mutellina Gaertn.

➤ *Ligusticum mutellina* (L.) Crantz

Meum piperitum (Ucria) Spreng.

➤ *Foeniculum vulgare* Mill. ssp. *piperitum* (Ucria) Cout.

MICHELIA L. - Magnoliaceae

Michelia champaca L.

Synonyms ▶ *Michelia evonymoides* Burm.

Common Names ▶ golden champaca, yellow champaca; *Chinese*: chen po, chen pò ka, kim cuong moc, huang lan; *French*: champac; *German*: Chamapaka; *Hin-*

di: champaca, champaca; *India*: campahah, campaca, chamba, chempaka merah, tschampaka; *Indonesian*: cempaka, lecari; *Javanese*: chěmpaka, pěchari lochari; *Malaysian*: orang chempaka, cempaka merah, cempaka putih, cempaka kuning; *Pilipino*: champaca, tsampaka; *Thai*: cham phaa; *Vietnamese*: ngoc ian

Usage ▶ flavoring of tea; **product**: essential oil (chamapaca oil)

Parts Used ▶ flower

Distribution ▶ India, Malaysia, widely cultivated in the Tropics

Bourton 1968; Engel/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Schultze-Motel 1986; Sharma 2003; Shiva et al. 2002; Uphof 1968

Michelia evonymoides Burm.

➤ *Michelia champaca* L.

Michelia figo L.

Synonyms ▶ *Liriodendron figo* Lour., *Michelia fuscata* (Andr.) Wall., *Magnolia figo* DC.

Common Names ▶ banana shrub, dwarf champac; *Chinese*: han xiad, han hsiao, chempaka ambon; *German*: Bananenstrauch; *Malaysian*: dwarf chempaka, chempaka ambon, kaum chempaka, pisang pisang; *Thai*: champii khaek; *Vietnamese*: tuí' tiên

Usage ▶ flavoring of tea (rarely)

Parts Used ▶ flower

Distribution ▶ SE China, Georgia, coasts of the Black Sea, widely cultivated

Burkill 1966; Engler/Phummai 2000; Erhardt 2000, 2002; Hanelt 2001; Schultze-Motel 1986; Uphof 1968; Wealth of India 6, 1962; Wiersema/León 1999; Zeven/de Wet 1982

Michelia fuscata (Andrews) Wall.

➤ *Michelia figo* L.

MICROMERIA Benth. - Lamiaceae (Labiatae)

Micromeria alternipilosa K. Koch

➤ *Satureja spicigera* (K. Koch) Boiss.

Micromeria fruticosa (L.) Druce

Common Names ▶ talmud widder hyssop, tea hyssop;
German: Arabisches Bergkraut, Strauch-Felsenklippe

Usage ▶ flavoring, especially for lamb meat in the Arabic-Jewish cuisine; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ Mediterranean region

Note ▶ The major component of the essential oil is pulegone (about 70%).

Dudai et al. 1993; Small 1997

Micromeria juliana (L.) (Rchb.)

Synonyms ▶ *Satureja juliana* L.

Common Names ▶ Julian savory; *French*: sarriette de Saint-Julian; *German*: Julian-Salbei

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Mediterranean region

Small 1997

Micromeria montana (L.) Rchb.

➤ *Satureja montana* L.

Micromeria piperella Benth.

Synonyms ▶ *Thymus piperella* L.

Common Names ▶ *German*: Pfefferthymian; *Spanish*: pebreila, pebrinella, piperesa

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ SW Europe

Micromeria spicigera K. Koch

➤ *Satureja spicigera* (K. Koch) Boiss.

Micromeria thymifolia (Scop.) Fritsch

Synonyms ▶ *Micromeria rupestris* (Wulfen ex Jacq.) Benth.

Common Names ▶ mountain mint; *German*: Thymianblättrige Bergminze

Usage ▶ flavoring (rarely)

Parts Used ▶ herb

Distribution ▶ Balkans: Croatia, Bosnia, S Italy, Hungary (rarely)

Erhardt et al. 2002; Kalogjera et al. 1993

MIKANIA Willd. - Asteraceae (Compositae)

Mikania parviflora (Aubl.) Karst

Synonyms ▶ *Eupatorium parviflorum* Aubl.

Common Names ▶ *French*: plante de l'étoile; *German*: Kleinblütige Mikanie; *Portuguese*: cipó-catinga, guaco; *Spanish*: guaco marda

Usage ▶ flavoring (rarely)

Parts Used ▶ flower

Distribution ▶ native to Amazonia, tropical C, S America

Note ▶ The flowers have a vanilla-like flavor.

Burkill 1985; Freise 1936; Hanelt 2001; Mors et al. 2000; Schultze-Motel 1986

Mimosa dulcis L.

➤ *Pithecellobium dulce* (Roxb. Benth.

Mimosa jiringa Jack

➤ *Archidendron jiringa* (Jack) I. Nielson

 Mimosa biglobosa Jacq.

➤ *Parkia biglobosa* (Jacq.) R. Br. ex G. Don

MINTHOSTACHYS (Benth.) Spach. - Lamiaceae (Labiatae)
 Minthostachys mollis (Benth.) Griseb.

Synonyms ▶ *Mentha mollis* Benth., *Minthostachys spicata* (Benth.) Epling

Common Names ▶ Ecuadorian mint, tipo leaf ; *German*: Ecuadorische Minze, Argentinische Minze, Weiche Minze, Gewürzminze, Peperina; *Argentina*: peperina, piperina; *Ecuador*: muña, poleo, tipo

Usage ▶ spice (locally), condiment; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ Andes: Venezuela, Colombia to Bolivia, and NW Argentina

Alingga/Feldeim 1985; Alkire et al 1994; Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993

 Minthostachys spicata (Benth.) Epling

➤ *Minthostachys mollis* (Benth.) Griseb.

MIRABILIS L. - Four O'Clock Plant - Nyctaginaceae
 Mirabilis jalapa L.

Synonyms ▶ *Mirabilis uniflora* Schrank

Common Names ▶ beauty of the night, false jalap, four o'clock plant, marvel of Peru; *Chinese*: zi mo li gen, zu mo li, yen chih; *French*: belle du nuit; *German*: Jalapa-Wunderblume; *Italian*: bella di notte; *Japanese*: oshiroi-bana; *Korean*: punkkot; *Malaysian*: kempang pukul empat, bunga pechah empet; *Mexico*: maravilla, Don Diego de node, arreboleva; *Spanish*: buenas tardes; clavellina tardes, hoja de xalape, maravilla

Usage ▶ spice, used like pepper (*Piper nigrum* L.)

Parts Used ▶ seed

Distribution ▶ possible origin in Mexico, Texas, Peru, native in N America, W Africa: Gabun, also cultivated in the Tropics

Aichele/Schwegler 2, 1994; Bärtels 1997; Cheers 1997; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Neuwinger 1999; Rättsch 1998; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982

 Mirabilis uniflora Schrank

➤ *Mirabilis jalapa* L.

 Moldavica punctata Moench

➤ *Dracocephalum moldavica* L.

 Moldavica suaveolens Gilib.

➤ *Dracocephalum moldavica* L.

MOLLUGO L. - Mollugine - Molluginaceae
 Mollugo hirta Thunb.

➤ *Glinus lotoides* L.

 Mollugo oppositifolia L.

➤ *Glinus oppositifolius* (L.) DC.

 Mollugo pentaphylla L.

Synonyms ▶ *Mollugo stricta* L.

Common Names ▶ carpet weed; *Chinese*: di ma huang; *German*: Fünfblättriges Weichkraut; *Japanese*: zakuro-sô; *Malaysian*: rumput belangkas, tapak burong

Usage ▶ pot-herb

Parts Used ▶ herb

Distribution ▶ China, India, Madagascar

Arora/Pandey 1996; Burkill 1966; Neuwinger 1999; Uphof 1968; Wealth of India 6, 1962

Mollugo stricta L.

➤ *Molluga pentaphylla* L.

MOMORDICA L. - Bitter Cucumber - Cucurbitaceae

Momordica balsamina L.

Synonyms ▶ *Momordica schinzii* Cogn.

Common Names ▶ African cucumber, balsam apple; *Arabic*: mokah; *French*: margose, pomme de mercveille; *German*: Balsamapfel, Wunderapfel, Springkürbis, Warzengurke; *Nigerian*: garafuni; *Russian*: momordika

Usage ▶ pot-herb

Parts Used ▶ young leaf

Distribution ▶ tropical Africa: The Gambia, Ghana, Niger, Nigeria, Senegal, Sierra Leone; S Africa, W Asia, China, Malaysia, Archipelago, Australia, native in tropical America and Australia, cultivated in West Indies

Burkill 3, 1995; Hanelt 2001; Dalziel 1957; Erhardt et al. 2002; Hiller/Melzig 1999; v. Koenen 1996; Neuwinger 1998; Schultze-Motel 1986; Täufel et al. 1993; Tommasi et al. 1991; Wealth of India 6, 1962; Zeven/de Wet 1982

Momordica ceylanicum Mill.

➤ *Momordica charantia* L.

Momordica charantia L.

Synonyms ▶ *Momordica indica* L., *Momordica muricata* Willd., *Momordica ceylanicum* Mill.

Common Names ▶ balsam pear, bitter cucumber, bitter gourd, bitter melon, carilla plant; *Brazil (Portuguese)*: Melao de St. Caetano; *Chinese*: ku gua,

k'u kua, chin li chih, lai pu-tao; *French*: con-combre africain, margose; *German*: Balsambirne, Amerikanische Springgurke, Bittere Springgurke; *Hindi*: karela; *Indonesian*: pepare; *Iran*: ginahang; *Japanese*: gôyâ, ki uri, naga-reishi; *Korean*: yuja; *Spanish*: bálsamo, balsamito cundeamor; *Thai*: mara, phak hoei

Usage ▶ spice, for fish and meat, curries

Parts Used ▶ pulp

Distribution ▶ native in SE USA, tropical countries, cultivated especially in E Asia

Arora/Pandey 1996; Ayensu 1978; Burkill 1985; Davidson 1999; Erhardt et al. 2002; Fatope et al. 1990; Gurip-Fakim/Brendler 2004; Hanelt 2001; Lück 2004; Neuwinger 1998; Schultze-Motel 1986; Sharma 2003; Uphof 1968; Villamar et al. 1994; Wealth of India 6, 1962; Wiersema/León 1999

Momordica indica L.

➤ *Momordica charantia* L.

Momordica muricata L.

➤ *Momordica charantia* L.

Momordica schinzii Cogn.

➤ *Momordica balsamina* L.

MONARDA L. - Indian nettle - Lamiaceae (Labiatae)

Monarda aristata Nutt.

➤ *Monarda citriodora* Cerv. ex Lag.

Monarda austromontana Epling

Common Names ▶ Mexican bergamot; *German*: Mexikanische Monarde, Mexikanische Bergamotte

Usage ▶ flavoring, pot-herb (rarely)

Parts Used ▶ leaf

Distribution ▶ Arizona, New Mexico, Mexico

Note ▶ The flavor is like oregano (*Origanum vulgare* L.).

Small 1997

 Monarda citriodora Cerv. ex Lag.

Synonyms ▶ *Monarda aristata* Nutt., *Monarda dispersa* Sm.

Common Names ▶ lemon bergamot, lemon mint; *German*: Präriemonarde, Indianernessel, Zitronen-Monarde; *Mexico*: mount pima oregano

Usage ▶ spice, flavoring (tea and by the Hopi Indian spiced game meat); **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ USA: Missouri to Nebraska, S Florida, Alabama, Texas, New Mexico, Arizona and Mexico; cultivated in USA

Note ▶ In the Crimea cultivated experimentally for the essential oil.

Cheers 1997; Collins et al. 1994; Hanelt 2001; Mansfeld 1986; Mikus/Schaser 1995; Mikus et al. 1997; Scora 1967; Small 1997; Stobart 1974; Teuscher 2003; Tucker 1986; Uphof 1968; Wiersema/León 1999



■ **Monarda didyma**, flowering

 Monarda didyma L. ■

Common Names ▶ fragrant balm, Oswega bee balm, Oswega tea; *Chinese*: mei guo bo he; *French*: monarde; *German*: Goldmelisse; Scharlach-Bergamotte, Scharlach-Monarde, Pferdeminze, Rote Indianernessel, Rote Melisse

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ USA: NE, C, SE; S America

Note ▶ The plant was introduced to Europe in 1656 as an ornamental plant.

Bremness 2001; Carnat et al. 1991a; Davidson 1999; Erhardt et al. 2002; Fleischhauer 2003; Hiller/Melzig 1999; Lück 2000; Schönfelder 2001; Small 1997; Täufel et al. 1993; Teuscher 2003; Uphof 1968

 Monarda dispersa Sm.

▶ *Monarda citriodora* Cerv. ex Lag.

 Monarda fistulosa L. ■

Common Names ▶ bee balm, horse bergamot, wild bergamot; *Chinese*: ni mei guo bo he; *French*: monarde fistuleuse; *German*: Goldmelisse, Späte Indianernessel, Röhrenblütige Monarde, Rosenmonarde, Wilde Bergamotte, Wilde Monarde; *Spanish*: oregano de la sierra

Usage ▶ pot-herb (salad), spice (locally)

Parts Used ▶ leaf

Distribution ▶ Canada, SW USA: California, Mexico

Berger 4, 1954; Cheers 1997; Chubey 1982; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Heinrich 1973, 1975; Mansfeld 1986; Marshall/Scora 1972; Mazza et al. 1987; Pfab et al. 1980; Schultze-Motel 1986; Seidemann 1993; Small 1997; Teuscher 2003; Tucker 1986; Uphof 1968

 Monarda pectinata Nutt.

Synonyms ▶ *Monarda penicillata* Gray



■ **Monarda fistulosa**, flowering

Common Names ▶ pony beebalm, spotted beebalm; *German*: Getüpfelte Kamm-Monarde

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ USA: Nebraska, Colorado, S Arizona, Texas, and New Mexico

Note ▶ Sporadically included *Monarda pectinata* Nutt. in *Monarda citriodora* Cerv. ex Lag.

Hanelt 2001; Tucker 1986; Uper 1968; Usher 1974; Wiersema/León 1999

Monarda punctata L.

Common Names ▶ American horse mint, dotted monarda, spotted beebalm; *German*: Punktierte Monarde

Usage ▶ pot-herb (rarely); **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ N America, from E and C U.S. to northern Mexico

Note ▶ The plant is a source of thymol.

Mansfield 1986; Small 1997; Usher 1968

Monarda penicillata Gray

➤ *Monarda pectinata* Nutt.

MONARDELLA Benth. – Lamiaceae (Labiatae)

Monardella odoratissima Benth.

Common Names ▶ cloverhead horse mint, coyote mint, mountain pennyroyal, Pacific monardella, stinking horse mint; *German*: Stink-Pferdeminze

Usage ▶ flavoring (rarely)

Parts Used ▶ leaf, herb

Distribution ▶ WN America

Erhardt et al. 2002

MONDIA Skeels – Asclepiadaceae (Periplococae)

Mondia whitei (Hook.f.) Skeels

Synonyms ▶ *Chlorocodon whitei* Hook.f.

Usage ▶ spice for sauces; **product**: isovanillin

Parts Used ▶ root, rhizome

Distribution ▶ tropical Africa: Senegal to E Africa, S Africa (Natal)

Ficalho 1947; Koorbanally et al. 2000; Mabberley 1999; McCartan/Crouch 1998; Msonthi 1991; Neuwinger 1994, 1998

MONODORA Dunal – Annonaceae

Monodora angolensis Welw.

Common Names ▶ Angola calabash; *German*: Angola Kalabassenmuskat

Usage ▶ condiment

Parts Used ▶ seed

Distribution ► tropical Africa, especially Angola

Uphof 1968

 Monodora borealis Elliot

► *Monodora myristica* (Gaertn.) Dunal

 Monodora brevipes Benth.

Common Names ► short-stemmed African nutmeg, yellow flowery nutmeg; *German*: Kurzstielige Kalabassen-Muskatnuss, Kalabassen-Macisbohne

Usage ► condiment, spice blend: mixed with 'country' pepper (?*Piper guinense* Schum. et Thonn) used for spice

Parts Used ► seed

Distribution ► W Africa: Ghana, Liberia, Nigeria, Sierra Leone

Burkill 1, 1985

 Monodora grandiflora Benth.

► *Monodora myristica* (Gaertn) Dunal

 Monodora myristica (Gaertn.) Dunal

Synonyms ► *Annona myristica* Gaertn., *Monodora borealis* Elliot; *Monodora grandiflora* Benth., *Xylopia undulata* P. Beauv.

Common Names ► African nutmeg, false nutmeg, calabash nutmeg, Jamaica nutmeg; *French*: fausse noix de muscade, muscade de Calabash, muscadier d'Afrique, muscadier de Calabasse; *German*: Kalabassen-Muskatnuss, Macisbohne, Afrikanische Gewürzbeere

Usage ► spice, condiment

Parts Used ► seed

Distribution ► W, C Africa, Angola, Ghana, Liberia, Nigeria, Sierra Leone, Uganda, W India

Note ► Very occasionally as a substitute for nutmeg; the taste is not like nutmeg.



 **Monodora myristica: a flowering, b seeds**

Bois 1934; Burkill 1966; Burkill 1, 1985; Ekundayo/Hammerschmidt 1988c; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Irvine 1961; Lamaty et al. 1987; Lammourea 1975; Oboh/Ekperigin 2004; Okeke 1998; Omobuwajo et al. 2003; Onyenekwe et al. 1993; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1996; Täufel et al. 1993; Teuscher 2003; Uphof 1968

 Monodora tenuifolia Benth.

Common Names ▶ thin-leaved African nutmeg; *German*: Dünoblättrige Afrikanische Muskatnuss

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ W Africa

Ayensu 1978; Burkill 1, 1985

MONTIA L. – Blink, Winter Purslane - Portulaccaceae

 Montia perfoliata (Donn) Howell;

Synonyms ▶ *Claytonia perfoliata* Donn; *Limnia perfoliata* (Donn) Haw.

Common Names ▶ miner's lettuce, winter purslane; *Chinese*: chuan ye chun mei cao; *French*: pourpier d'hiver, claytone de Cuba, claytonia perfoliée; *German*: Tellerkraut, Winterportulak, Winterpostelein; *Italian*: portulaca d'inverno; *Portuguese*: beldroega de Inverno, claitónia; *Russian*: monzija, Kubinskij schpinat; *Spanish*: verdolaga de invierno, verdolago de Cuba

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Canada, USA: NW, Rocky Mountains, California; Mexico; native in W Europe, C Europe, Cuba

Bremness 2001; Erhardt et al. 2001; Hanelt 2001; Kays/Dias 1995; Terra 1966

MORINDA L. – Indian Mulberry - Rubiaceae

 Morinda bracteata Roxb.

▶ *Morinda citrifolia* L.

 Morinda citrifolia L.

Synonyms ▶ *Morinda bracteata* Roxb., *Morinda litoralis* Blanco, *Morinda macrophylla* Desf.

Common Names ▶ Indian mulberry, Indian painkiller, awl tree, brimstone tree; *French*: morinde, mûrier des Indes; *German*: Indische Maulbeere, Noni, Zitronenblättrige Morinda; *India*: bartundi, surangji; *Indonesian*: menkudu nenghudu, *Japanese*: yae-aoki; *Malaysian*: kattapitalavam, mannanatti; *Pacific region*: noni; *Spanish*: mora de la India; *Tahiti*: nono; *Thai*: yo baan, mataasuea; *Vietnamese*: nhau, nhau rung

Usage ▶ pot-herb

Parts Used ▶ young leaf

Distribution ▶ native in Queensland (Australia), perhaps ranged to the South Sea Islands from eastern Polynesia to India, both wild and cultivated; Vietnam; naturalized in the New World in C to S America (Mexico, Panama, Columbia, Venezuela), and throughout the Caribbean, the Florida keys, the Indian Ocean Islands, and the West Indies common in coastal areas

Burkill 1966; Erhardt et al. 2002; Gurib-Fakim/Brendler 2004; Jacquot 1990; Hiller/Melzig 1999; Lück 2004; Ogle et al. 2003; Rättsch 1998; Schultze-Motel 1986; Seidemann 2001c; Storrs 1997; Uphof 1968; Wealth of India 6, 1962; WHO 1990; Wiersma/León 1999; Zeven/de Wet 1982

 Morinda litoralis Blanco

▶ *Morinda citrifolia* L.

 Morinda macrophylla Desf.

▶ *Morinda citrifolia* L.

MORINGA Adans. - Horse Radish Tree - Moringaceae

 Moringa erecta Salisb.

▶ *Moringa oleifera* Lam.



■ **Morinda citrifolia**, fruiting



Moringa oleifera Lam. ■

Synonyms ► *Moringa erecta* Salisb., *Moringa pterygosperma* Gaertn., *Moringa zeylanica* Pers.

Common Names ► drumstick, horse radish tree, radish tree; *French*: ben aillé, moringa ailel, pois qué-nique; *German*: Meerrettichbaum, Pferderettichbaum, Flügelsamiger Behennussbaum, Ölmoringie; *India*: sahijan, sangina, soajna, sigruh, moringu, murinna, murinkai, nunga; *Indonesian*: kelor; *Japanese*: wasabi-nok; *Malaysian*: emmanggai, kelok, kachang, kelir, lemunggai, morunggai; *Pilipino*: arunggai, kamalungai, malunggay; *Portuguese*: muringueiro; *Russian*: moringa; *Sanskrit*: sigru, s(h)obhanjana; *Spanish*: maranga, pareíso, pareíso blanco; *Swahili*: sojana; *Thai*: ma rum, phak-nuea-kai, phak eehum

Usage ► pot-herb (India); couscous and sauce spice (fruits and leaves)

Parts Used ► flower, leaf, fruit

Distribution ► India, cultivated elsewhere, e.g. Senegal



■ **Moringa oleifera**: a flowering, b fruit

Note ► The flowers are also used as 'pot-herb'. The oil of the fruits is used for cosmetics and lamps.

Arora/Pandey 1996; Bendel 2002; Bois 1934; Burkill 4, 1997; Cheers 1997; Dastur 1954; Davidson

1999; Duke et al. 2003; Erhardt et al. 2002; Gurib-Fakim/Brendler 2004; Hager 5, 1993; Hanelt 1985, 2001; Hiller/Melzig 1999; Hutton 1998; Kottegoda 1994; Kumar 2003; Lalas 1998; Lück 2004; McNavy/Wood 2003; Mansfeld 2003; Morton 1991; Neuwinger 1999; Oliveira et al. 1999; Oomen/Grubben 1978; Ramachandran et al. 1980; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Seshadri/Nambiar 2003; Sharma 2003; Siemonsma/Piluek 1993; Small 1997; Somali et al. 1984; Storrs 1997; Täufel et al. 1993; Tsaknis et al. 1998, 1999; Uphof 1968; Villamar et al. 1994; Wealth of India 6, 1962; Wiersma/León 1999; Zeven/de Wet 1982



Moringa pterygosperma Gaertn.

► *Moringa oleifera* Lam.



Moringa zeylanica Pers.

► *Moringa oleifera* Lam.



Morisonia flexuosa L.

► *Capparis flexuosa* L.

 Moschosma polystachon Benth.

➤ *Basilicum polystachon* (L.) Moench

 Mukia maderaspatana (L.) M. Roem.

➤ *Melothria maderaspatana* (L.) Cogn.

 Mukia scabrella Arn.

➤ *Melothria maderaspatana* (L.) Cogn.

MURRAYA König ex L. - Orange Jessamine - Rutaceae

 Murraya amoena Salisb.

➤ *Murraya paniculata* (L.) Jack

 Murraya exotica L.

➤ *Murraya paniculata* (L.) Jack

 Murraya koenigii (L.) Spreng.

Synonyms ▶ *Bergora koenigi* L., *Chalcas koenigii* Kurz, *Nimbo melioides* Dennst.

Common Names ▶ curry leaf, Indian bay; **French:** feuille de Murraya; **German:** Curryblätter, Curry-Orangenraute; **India:** kathnim, barsanga, bowala, gandhela, gendela, karipatta, karrinim, kasapiucha, limdo (mitho), mitha neem, kurry patta, **Indonesian:** daun kari; **Malaysian:** daun kari, karwa pale, kerupulai, garupillai; **Sanskrit:** surabhi nimbu; **Slovenian:** listy kari; **Sri Lanka:** karapincha; **Thai:** bai karee

Usage ▶ spice, pot-herb

Parts Used ▶ leaf

Distribution ▶ India, Sri Lanka, Thailand, Laos, Cambodia, Pacific Islands (Fiji), Bangladesh

Arora/Pandey 1996; Chauhan 1999; Cheers 1997; Craze 2002; Davidson 1999; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985;



 **Murraya koenigii**, plant

Farhath Kanum et al. 2000; Hanelt 2001; Hohmann 1971; Kumar 2003; Lück 2004; MacLeod/Pieris 1982; MacLeod/Pieris 1982; Mallavapura et al. 1999; Morris/Mackley 1999; Norman 1990, 1991; Peter 2001; Prakash/Natarajan 1974; Raina et al. 2002; Saha/Chowdhury 1998; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Sharma 2003; Siewek 1990; Tachibana et al. 2001; Täufel et al. 1993; Teuscher 2003; Uhl 2000; Uphof 1968; Waßmuth-Wagner et al. 1992, 1995; Wiersema/León 1999; Zeven/de Wet 1982

 Murraya paniculata (L.) Jack

Synonyms ▶ *Chalcas paniculata* L., *Murraya amoena* Salisb., *Murraya exotica* L., *Murraya sumatrana* Roxb.

Common Names ▶ bark tree, jasmine orange, Chinese myrtle, Chinese box-wood, Burmese box-wood, satinwood, cosmetic park tree, Hawaiian orange, orange jasmine; **Chinese:** chiu li xiang, chiu li hsiang tsao, kau lei heung; **French:** buis de Chine; **German:** Falscher Jasmin, Orangenraute; **Hindi:** kamina marchula, konji, nagagolunga, pandara; **India:** angara gida, ban mallika, konji; **Indonesian:** kemuning;

Japanese: gek-kitsu, gikiji; *Javanese*: djenar, kemoe-ning; *Malaysian*: kēmung, kemuning; *Pilipino*: ba-naasi, banati, kamuning; *Thai*: dawk kaeo, kèo

Usage ► flavoring (tea, confectionery)

Parts Used ► flower, (leaf, very sporadically)

Distribution ► N India, Sri Lanka, S China, Sumatra, Java, Philippines, Malaysia, New Caledonia, Australia, Pacific Islands

Cheers 1997; Dastur 1954; Davidson 1999; Engler/Pummai 2000; Erhardt et al. 2000, 2002; Kimoshita/Firman 1997; Kottegoda 1994; NICPBP 1987; Schultze/Motel 1986; Sharma 2003; Storrs 1997; Tao Duoda 1998; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982

 **Murraya sumatrana** Roxb.

► *Murraya paniculata* (L.) Jack

MUSSAENDA L. - Rubiaceae

 **Mussaenda frondosa** L.

Common Names ► *Hindi*: bebina, bedina; *Nepal*: asari

Usage ► pot-herb

Parts Used ► leaf

Distribution ► tropical Himalayas, cultivated in Indian gardens

Hanelt 2001; Schultze-Motel 1986; Uphof 1968

 **Myrodia funebris** (La Llave) Benth.

► *Quararibea funebres* (La Llave) Vischer

MYRIANTHUS Pall. - Cecropiaceae

 **Myrianthus libericus** Rendle

Usage ► pot-herb

Parts Used ► young leaf

Distribution ► Liberia

Burkill 1, 1985

MYRICA L. - Gale, Bog Myrtle - Myricaceae

 **Myrica cerifera** L.

Common Names ► bay berry, candle berry, wax berry, wax myrtle; *French*: arbre à suif, cirier; *German*: Wachs-Myrte; *Italian*: corteccia

Usage ► spice, substitute for bay leaves in seasoning meats, sauces, soups

Parts Used ► leaf

Distribution ► NE, SE USA: Florida, Texas

Erhardt et al. 2002; Rättsch 1998; Tull 1999; Wyk et al. 2004

 **Myrica gale** L. ■

Common Names ► bog myrtle, gale, meadow fern, sweet gale, sweet myrtle, wax berry; *French*: galé odorant, galé piment aquatique, myrte bâtard, myrte des Marais; *German*: Gagelstrauch, Heidemyrte, Moor-Gagelstrauch, Sumpfmirte; *Italian*: mirto bastarda; *Russian*: mirt bolotnyj; woskowniza obyknowennaja; *Spanish*: mirto de brabant, mito holandés

Usage ► spice

Parts Used ► herb

Distribution ► E Asia, N America, Europe: France, England, Germany

Berger 4, 1954; Cheers 1997; Davidson 1999; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hiller/Melzig 1999; Ingels 1987; Lawrence/Weaver 1974; Rättsch 1998; Schantz/Kapétanidis 1971; Schnelle 1999; Seidemann 1993c; Uphof 1968; Wiersema/León 1999

 **Myrica pennsylvanica** Loisel.

Synonyms ► *Myrica carolinensis* hort.

Common Names ► bay berry, candle berry, northern bay-berry, waxy berry; *German*: Amerikanischer Gagelstrauch, Wachsbeere

Usage ► flavoring

Parts Used ► herb



■ *Myrica gale*: a flowering, b fruiting

Distribution ► E Canada, NE USA, Ohio; native in New Zealand, S England

Erhardt et al. 2002; Small 1997

MYRISTICA Gronov. - Nutmeg - Myristicaceae

Myristica argentea Warb.

Common Names ► silver nutmeg; *French*: noix muscade mâle, noix muscade sauvage, noix muscade macassar, noix papoue; *German*: Papua-Muskat, Makassar-Muskat, Langer Muskat, Wilder Muskat, Silber-Muskat, Pferde-Muskat

Usage ► spice

Parts Used ► seed, aril

Distribution ► New Guinea, where it is also occasionally cultivated

Bois 1934; Griebel 1909; Hager 5, 1993; Hiller/Melzig 1999; Mansfeld 1986; Melchior/Kastner 1974; Pruthi 1976; Rättsch 1998; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c;

Seidemann/Siebert 1987; Siewek 1990; Teuscher 2003; Warburg 1897; Zeven/de Wet 1982

Myristica aromatica Lamk

► *Myristica fragrans* Houtt.

Myristica castaneifolia A. Gray

Synonyms ► *Myristica macrantha* A.C. Sm., *Myristica macrophylla* A. Gray

Common Names ► chestnut-leafy nutmeg; *German*: Großblütiger Muskat, Kastanienblättrige Muskat

Usage ► flavoring

Parts Used ► seed

Distribution ► SE Asia

Oyen/Dung 1999

Myristica cinnamomea King

Common Names ► cinnamom nutmeg; *German*: Zimt-Muskat; *Malaysian*: mendarah, pala bukit

Usage ► spice (locally)

Parts Used ► seed

Distribution ► Malaysian Peninsula, Singapore, Borneo, Philippines

Guzman/Siemonsma 1999; Sinclair 1968

Myristica contorta Warb.

► *Myristica dactyloides* Gaertn.

Myristica corticosa Hock.f.

► *Knema corticosa* Lour.

Myristica dactyloides Wall.

► *Myristica malabarica* Lam.

Myristica dactyloides Gaertn.

Synonyms ► *Myristica laurifolia* Hook.f. et Thoms; *Myristica contorta* Warb.

Common Names ► Malabar nutmeg; *German*: Gefingert-Muskat, Malabar-Muskat; *Sri Lanka*: malaboda; *Tamil*: katjathikai

Usage ► spice (rarely)

Parts Used ► seed

Distribution ► India: S Madras, Malabar coast; Sri Lanka

Hanelt 2001; Hiller/Melzig 1999; Schultze-Motel 1986; Wealth of India 6, 1962

Myristica fatua Houtt.

Synonyms ► *Myristica tomentosa* Thunb.

Common Names ► mountain nutmeg; *Dutch*: mannetjesnooten; *French*: muscadier de forêt ou montagne; *German*: Bergmuskat, Filziger Muskat, Uechter Muskat; *Malaysian*: pala laki-laki; palafuker, pala utan

Usage ► spice (local rarely)

Parts Used ► seed

Distribution ► India, Indonesia, Malaysia: Ambon, Banda, Java; cultivated: Java and Malaysia

Bois 1923; Hager 5, 1993; Rätsch 1998; Schultze-Motel 1986; Sinclair 1968; Warburg 1897

Myristica fragrans Houtt.

Synonyms ► *Myristica aromatica* Lam., *Myristica moschata* Thunb., *Myristica officinalis* L. f.,

Common Names ► nut: (true) nutmeg, Banda nutmeg; *Arabic*: basbasah, gouz bouwa; *Chinese*: jon tou k'ou, rou dou kou; *Dutch*: nootmuskaat; *French*: muscadier commun, noix de muscade, musque; *German*: Echte Muskatnuss, Muskatnuss, Duftende Muskat(nuss); *Hindi*: jayphal, mada shaunda, taiphala; *Indonesian*: pala; *Italian*: noce moscata; *Japanese*: nikuzuki; *Javanese*: wohpala; *Malaysian*: buah pala; *Portuguese*: moscadeira; *Russian*: muskatnij orech; *Sanskrit*: jatikosa, jatiphala, taiphala; *Slovenian*: muskátový orech; *Spanish*: nogal moscado, nuez moscada; *Thai*: chan thet ► aril: mace;



► **Myristica fragrans**, fruits, partly open, visible the seeds with arillus (macis)

Arabic: basbasah; *French*: macis, noix muscade (capsule della); *German*: Mazis, Muskatblüte (= wrongly); *India*: tavitri; *Italian*: mace, macis, fiore de macis, fiore di noce moscata; *Portuguese*: flor de noz moscada; *Russian*: mazis; *Sanskrit*: jajipatri; *Slovenian*: muskátový kvet; *Spanish*: macis, maciá

Usage ► spice; **product**: essential oil

Parts Used ► seed, aril

Distribution ► It is not found wild, Malaysia?; cultivated elsewhere

Note ► The fruit peel with fruit flesh is used for yams and candied for cakes etc. The seeds used to be dipped in milk of lime to prevent the infestation of insects.

Baldry et al. 1976; Bittencourt et al. 2001; Bois 1934; Boisvert/Huber 2000; Borges/Pino 1993; Bournot 1968; Burkill 4, 1997; Cheers 1997; Craze 2002; Dalby 2000; Davidson 1999; Davis/Cooks 1982; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Ferrão 1992; Forrest 1972; Gerhardt/Sundermann 1981; Guzman/Siemonsma 1999; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Joseph 1980; Kalbhen 1971; Krützfeld 2002; Lee/Caruso 1958; Lück 2004; Maistre 1964; McKee/Harden 1991; Melchior/Kastner 1974; Michaelis 1916; Mil-

ton 1999; Morris/Mackley 1999; Mors/Rizzini 1961; Norman 1991; Oberdieck 1989b; Ochse et al. 1961; Peter 2001; Pruthi 1976; Pschyrembel 1993; Pursglove 1968; Rosengarten 1969; Roth/Kormann 1997; Schenk/Lamparsky 1981; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Sharma 2003; Sherry et al. 1982; Shiva et al. 2002; Shulgin 1963; Siewek 1990; Simpson/Jackson 2002; Sinclair 1968; Small 1997; Staesche 1972; Strauß 1967; Täufel et al. 1993; Teuscher 2003; Tschirch 1892; Uhl 2000; Vaupel 2002b; Villamar et al. 1994; Warburg 1897; Weil 1965; Wiersema/León 1999; Wilhelm 1966; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982; Zizka/Fleckenstein 1985

Myristica laurifolia Hook.f. & Thoms

➤ *Myristica dactyloides* Gaertn.

macrantha A.C. Smith

➤ *Myristica castaneifolia* A. Gray

Myristica macrophylla A. Gray

➤ *Myristica castaneifolia* A. Gray

Myristica malabarica Lam.

Synonyms ▶ *Myristica dactyloides* Wall.

Common Names ▶ Bombay nutmeg, Malabar nutmeg;
German: Bombay-Muskatnuss, Malabar-Muskatnuss

Usage ▶ spice

Parts Used ▶ seed, aril

Distribution ▶ India: Malabar coast, also cultivated in the garden

Note ▶ Sometimes is like an adulteration of *Myristica fragrans* Houtt.

Erhardt et al. 2002; Hager 5, 1993; Hiller/Melzig 1999; Melchior/Kastner 1974; Pruthi 1976; Rätsch 1998; Seidemann 1993c; Teuscher 2003; Uphof 1968; Warburg 1897; Wealth of India 6, 1962

Myristica moschata Thunb.

➤ *Myristica fragrans* Houtt.

Myristica officinalis L.f.

➤ *Myristica fragrans* Houtt.

Myristica otoba H. et B.

Synonyms ▶ *Dialyanthera otoba* (H. et B.) Warb.

Common Names ▶ *German*: Otoba-Muskat

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ S America: Columbia

Teuscher 2003; Warburg 1897

Myristica schefferi Warb.

➤ *Myristica succedanea* Bl.

Myristica speciosa Warb.

Common Names ▶ Moluccan nutmeg; *French*: muscadier des Moluques; *German*: Batjan-Muskat, Molukken-Muskat; *Malaysian*: pala maba

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ Philippines: Batjan; Moluccas

Bois 1934; Hager 5, 1993; Rätsch 1998; Teuscher 2003; Warburg 1897

Myristica succedanea Bl.

Synonyms ▶ *Myristica schefferi* Warb.

Common Names ▶ *Dutch*: halmaheiramuskaat; *French*: noix muscade à laquelle; *German*: Halmaheira-Muskat(nuss)

Usage ▶ spice, condiment, like *Myristica fragrans* Houtt.

Parts Used ▶ seed

Distribution ▶ N Moluccas; cultivated in a small region on Ternate.

Bois 1934; Burkill 19966; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Mansfeld 1986; Melchior/Kastner 1974; Rätsch 1998; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Warburg 1897

**Myristica tomentosa** Thunb.

➤ *Myristica fatua* Houtt.

**Myristica womersleyi** J. Sinclair

Common Names ▶ Womersleyie nutmeg; *German*: Womersleyie Muskat

Usage ▶ spice (locally); **product**: essential oil

Parts Used ▶ seed

Distribution ▶ NE New Guinea

Guzman/Siemonsma 1999; Oyen/Dung 1999; Warburg 1987

**Myrospermum peruiferae** Royle

➤ *Myroxylon balsamum* (L.) Harms var. *peruifera* (Royle) Harms

**Myrospermum sonsonatense** Oerst.

➤ *Myroxylon balsamum* (L.) Harms var. *peruiferae* (Royle) Harms

**Myrospermum toluiferum** DC.

➤ *Myroxylon balsamum* (L.) Harms var. *balsamum*

MYROXYLON L.f. - Balsam - Fabaceae (Leguminosae)

**Myroxylon balsamum** (L.) Harms var. **balsamum**

Synonyms ▶ *Myrospermum toluiferum* DC., *Myroxykon hanburyanum* Klotzsch, *Myroxylon tulifera* H.B.K., *Myroxylon toluiferum* A. Rich., *Toluifera balsamum* L., *Toluifera balsamum* var. *genuinum* Baill.

Common Names ▶ balsam of Tolu; *Brazil (Portuguese)*: bálsamo-de-tolu; *French*: baumier de Tolu; *German*: Tolubalsam; *Italian*: balsamo di Tolù; *Russian*: bal'samowoe derewo; *Spanish*: bálsamo de Tolú, arbol de Tolú

Usage ▶ spice (rarely), flavoring of drinks, cakes, chocolate and chewing gum, joss drug

Parts Used ▶ balsam

Distribution ▶ S America: Guatamala, Columbia, Venezuela; Brazil; also cultivated

Bergemann 1950; Cheers 1997; Dalby 2000; Dusemund et al. 1991; Ecker-Schlimpf 1991; Erhardt et al. 2002; Glasl/Wagner 1974; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Langenheim 2003; Mansfeld 1959; Mors et al. 2002; Opdyke 1974a; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

**Myroxylon balsamum** (L.) Harms var. **peruiferae** (Royle) Harms

Synonyms ▶ *Myrospermum peruiferae* Royle, *Myrospermum sonsonatense* Oerst., *Myroxylon peruiferae* Klotzsch, *Myroxylon peruiferum* L.f., *Toulifera peruiferae* Baill.

Common Names ▶ Balsam of Peru, black balsam, Peruvian balsam; *Brazil (Portuguese)*: bálsamo-do-peru; *French*: arbor de balsamo, baumier du Pérou; *German*: Perubalsam, Salvadorbalsam; *Italian*: balsamo di Perú; *Russian*: miroksilon; *Spanish*: arbol de Pérou, balsamo de Pérou

Usage ▶ spice (rarely), flavoring of drinks, cakes, chocolate and chewing gum, joss drug

Parts Used ▶ balsam

Distribution ▶ S America: San Salvador, Guatamala, Peru

Note ▶ Cultivated by the Aztecs in the imperial garden in Mexico.

Bergemann 1950; Cheers 1997; Dalby 2000; Dusemund et al. 1991; Ecker-Schlimpf 1991; Erhardt et al. 2002; Glasl/Wagner 1974; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Langenheim 2003; Mansfeld 1959; Mors et al. 2002; Oliveira et al. 1978; Opdyke 1974a; Rätsch 1998; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

 Myroxylon hanburyanum Klotzsch

➤ *Myroxylon balsamum* (L.) Harms var. *balsamum*

 Myroxylon peruiferae Klotzsch

➤ *Myroxylon balsamum* (L.) Harms var. *peruifera* (Royle) Harms

 Myroxylon toluifera H.B.K.

➤ *Myroxylon balsamum* (L.) Harms. var. *balsamum*

 Myroxylon toluiferum A. Rich.

➤ *Myroxylon balsamum* (L.) Harms var. *balsamum*

MYRRIS Mill. - Sweet Cicely - Apiaceae (Umbelliferae)

 Myrris aromatica L.

➤ *Myrris odorata* (L.) Scop.

 Myrris occidentalis Benth. et Hook.f.

Synonyms ▶ *Osmorhiza occidentalis* (Nutt.) Torr.

Common Names ▶ anise sweet, Western sweet root, sweet cicely; *German*: Aniswurzel

Usage ▶ spice, flavoring

Parts Used ▶ root

Distribution ▶ USA: California, SW Colorado

Hoppe 3, 1987

 Myrris odorata (L.) Scop.

Synonyms ▶ *Myrris aromatica* L., *Scandix odorata* L.

Common Names ▶ anise chervil, garden myrrh, Spanish chervil, sweet cicely, sweet scented myrrh, giant sweet chervil; *Arabic*: samag albostan; *Chinese*: ou zhou mo yao; *Dutch*: roomse kervel; *French*: cer-

feuil d'Espagne, cerfeuil musqué, cerfeuil odorant, myrris, persil d'anis; *German*: Aniskerbel, Myrrhenkerbel, Süßdolde, Wilder Anis; *Italian*: cerfoglio di spagua, finocchielle, mirride (delle Alpi), mirride odorata; *Portuguese*: cerefolho almiscarado; cerefolho anisado; *Russian*: kerbel' ispanckij, mnogoletnij kerbel', dikaja petruschka, duschistyj buten', ladan, mirris; *Spanish*: perifollo almizclado, perifollo oloroso

Usage ▶ spice

Parts Used ▶ fresh herb

Distribution ▶ C Europe, SE and SW Europe, native elsewhere

Aichele/Schwegler 3, 1995; Bois 1934; Bremness 2001; Brieskorn/Noble 1982; Cheers 1997; Clair 1961; Davidson 1999; Erhardt et al. 2002; Fleischhauer 2003; Hiller/Melzig 1999; Loch 1993; Mansfeld 1959; Pochljobkin 1974, 1977; Schnelle 1999; Schönfelder 2001; Schulz 1963; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Tucker 1986; Teuscher 2003; Uphof 1968; Wiendl/Franz 1994; Wiersema/León 1999; Zeven/de Wet 1982

MYRTUS L. - Myrtle - Myrtaceae

 Myrtus communis L.

Common Names ▶ common myrtle, myrtle; *Arabic*: ad-hera, guemmam, marsin, rihan; *French*: myrte, myrte comun; *German*: Echte Myrte, Brautmyrte, Myrthenkörner; *Italian*: mirto; *Russian*: mirt; *Slovenian*: myrta; *Spanish*: arrayán, mirto

Usage ▶ spice; fruits for sauces and meat, especially in Greece; **product**: essential oil

Parts Used ▶ leaf, fruit (berry)

Distribution ▶ Canary Islands, N Africa, W Africa, SE and SW Europe to NW Himalayas

Bärtels 1997; Berger 2, 1950; Bourton 1968; Bremness 2001; Craze 2002; Dalby 2000; Davidson 1999; Duke et al. 2003; Erhardt et al. 2000, 2002; Frau et al 2001; Hager 5, 1993; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Jerkovic et al. 2002; Lück 2000; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982



Myrtus pimenta *L.*

➤ *Pimenta dioica* (*L.*) Merr.

N

NANNORHOPS H. Wendl. - Araceae (Palmae)

Nannorhops ritchiana (Griff.) Aitch.

Common Names ▶ marari palm; *German*: Mazaripalme

Usage ▶ pot-herb (by the natives)

Parts Used ▶ young leaf

Distribution ▶ India, Iran, Afghanistan, Pakistan

Erhardt et al. 2002; Uphof 1968

Narthex polakii Staph et Wettst.

▶ *Ferula assa-foetida* L.

Nardosmia japonica Siebold et Zucc.

▶ *Petasites japonica* (Siebold et Zucc.) Maxim

NARDOSTACHYS DC. - Nard, Spikenard - Valerianaceae

Nardostachys grandiflora DC.

Synonyms ▶ *Narthostachys jatamansi* (G. Don) DC.

Common Names ▶ Indian nard, spikenard; *French*: nardostachyde de l'Inde; *German*: Indische Narde, Nardenähre, Speicherähre; *India*: jatamansi

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf, rhizome

Distribution ▶ N India to SW China, Himalayas

Chauhan 1999; Dalby 2000; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Rätsch 1998; Schultze-Motel 1986; Sharma 2003; Uphof 1968; Warrier et al. 1995

Nardostachys jatamansi (G. Don) DC.

▶ *Narthostachys grandiflora* DC.

NASTURTIUM R.Br. - Water Cress - Brassicaceae (Cruciferae)

Nasturtium aquaticum Wahlenb.

▶ *Nasturtium officinale* R.Br.

Nasturtium armoracia (L.) Fries

▶ *Armoracia rusticana* Gaertn. et B. Mey. et Scherb.

Nasturtium latifolium Gillet et Magne

▶ *Lepidium latifolium* L.

 Nasturtium latifolium (L.) O. Kuntze

➤ *Lepidium latifolium* L.

 Nasturtium microphyllum Boenn. ex Reichb.

Synonyms ▶ *Rorippa microphylla* (Boenn.) Hyl.

Common Names ▶ small leafy watercress; *German*: Kleinblättrige Brunnenkresse, Winterkresse

Usage ▶ pot-herb

Parts Used ▶ fresh leaf

Distribution ▶ Europe, E Europe, N Africa: Morocco; India; native elsewhere

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Hager 5, 1993; Small 1997; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

 Nasturtium nasturtium Cockerell

➤ *Nasturtium officinale* R.Br.

 Nasturtium officinale R. Br.

Synonyms ▶ *Cardaminum nasturtium* Moench., *Crucifera fontana* E.H.L. Krause, *Nasturtium aquaticum* Wahlenb., *Nasturtium nasturtium* Cockerell, *Rorippa nasturtium-aquaticum* (L.) Hayek, *Sisymbrium nasturtium* Thunb.

Common Names ▶ common watercress, watercress; *Arabic*: guernech, harriqa, karsun mehi; *Chinese*: dou ban cai, xi yang cai gun; *Dutch*: waterkres; *French*: cresson d'eau, cresson de fontaine (d'eau); *German*: Echte Brunnenkresse, Bachkresse, Wasserkresse, Wassersenf, Wiesenkren; *Hindi*: pani sag; *Indonesian*: selada air; *Italian*: crescione aquatico, nasturcio, agretto aquatico; *Japanese*: mizu garashi, oranda garashi; *Portuguese*: agrião, agrião de água; *Russian*: kress wodjanoy, brunkress, kljuzewoj kress, wodjanoy kren, sherucha wodnaja; *Spanish*: berro de agua, berro de fuente, mastuerzo acuático; *Vietnamese*: xa lach, xong

Usage ▶ pot-herb

Parts Used ▶ fresh leaf

Distribution ▶ Europe, Canary Islands, N Africa, tropi-

cal Africa, Turkey, Caucasus, temperate Asia cosmopolitical, native in N America

Aichele/Schwegler 3, 1995; Arora/Pandey 1996; Bärtels 1997; Berger 4, 1954; Bilgri/Adam 2000; Cheers 1997; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Koschtschew 1990; Larkcom 1991; Leung 1991; Mansfeld 1962; Ogle et al. 2003; Pochljobkin 1974, 1977; Pschyrembel 1998; Pursglove 1968; Schönfelder 2001; Schultze-Motel 1986; Siemonesma/Piluek 1993; Small 1997; Šedo/Krejča 1983; Täufel et al. 1993; Teuscher 2003; Tindall 1983; Tull 1999; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

 Nasturtium officinale R.Br. x **Nasturtium microphyllum** Boenn.

➤ *Nasturtium sterile* (Airy Shaw) Oefelein

 Nasturtium x sterile (Airy Shaw) Oefelein

(= *Nasturtium officinale* R.Br. x *Nasturtium microphyllum* Boenn.)

Synonyms ▶ *Rorippa x sterilis* Airy Shaw

Usage ▶ pot-herb

Parts Used ▶ fresh leaf

Distribution ▶ C and W Europe, cultivated in England (rarely)

Hanelt 2001; Schultze-Motel 1986

NECTANDRA Roland ex Rottb. - Lauraceae

 Nectandra globosa (Aubl.) Mez

Common Names ▶ *Brazil (Portuguese)*: canela-amarela, canela-da-capoeira, canela-mirim, canela-seca

Usage ▶ flavoring

Parts Used ▶ bark

Distribution ▶ Amazonia to Bahia

Mors et al. 2000

**Nectandra cinnamoides** Nees

➤ *Ocotea cymbarum* H.B.K.

**Nectandra cymbarum** (H.B.K.) Nees

➤ *Ocotea cymbarum* H.B.K.

**Nectandra puchury-major** Nees et Mart.

➤ *Ocotea puchury-major* Mart.

NEPETA L. - Catmint - Lamiaceae (Labiatae)

**Nepeta americana** Aubl.

➤ *Hyptis spicigera* Lam.

**Nepeta cataria** L.

Synonyms ▶ *Calamintha albiflora* Van., *Nepeta citriodora* Becker, *Nepeta minor* Mill., *Nepeta vulgaris* Lam.

Common Names ▶ catmint, catnip, lemon catnip (America); *Chinese*: jing jie, jia jing jie; *French*: cataire, chataire, menhe de chat; *German*: Echtes Katzenkraut, Gewöhnliche Katzenminze, Steinmelisse; *Italian*: cataria, erba de gatta, gattaia comune, menthe die gatti; *Portuguese*: erva gateira; *Russian*: kotovnik koschaschij, koschatschja mjata; *Spanish*: calamento, hierba gatera, menta de gato

Usage ▶ spice (specially in France for seasoning sauces, soups etc.)

Parts Used ▶ herb

Distribution ▶ S, E Europe, Turkey, W Siberia, Amur, C Asia, India, China, Himalayas, Cuba and other Latin America countries; naturalized in W, C Europe, E Asia, N America, S Africa

Note ▶ The var. *citriodora* (Becker) Balb. contains much citronellol (ca. 50%) in the essential oil, used in food and the pharmaceutical industries and perfumery.

Aichele/Schwegler 4, 1995; Alberts/Muller 2000; Berger 2, 1950; Bourton 1968; Bremness 2001; Cheers 1997; Dellacassa et al 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 5, 1993; Hanelt 2001; Heeger 1956; Herron 2003; Hiller/Melzig 1999; Hoppe 1949; Kaczmarek 1957; Klimek et al. 2000; Mansfeld 1962; Mikus/Schaser 1995; Pooter et al. 1988; Roth/Kormann 1997; Schnelle 2003; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Wealth of India 7, 1966; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

**Nepeta citriodora** Becker

➤ *Nepeta cataria* L.

**Nepeta x faassenii** Bergmans ex Stearn

Common Names ▶ blue catmint; *French*: chataire, herbe aux chats; *German*: Blaue Katzenminze; Blau-minze; Kleine Katzenminze

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ cultivated Europe, C Asia, Persia

Note ▶ Sterile hybrid.

Cheers 1997; Erhardt et al. 2002; Hanelt 2001; Pooter et al. 1988; Small 1997

**Nepeta glechoma** Benth.

➤ *Glechoma hederacea* L.

**Nepeta minor** Mill.

➤ *Nepta cataria* L.

**Nepeta mussinii** Spreng.

➤ *Nepeta racemosa* Spreng.

**Nepeta racemosa** Lam.

Synonyms ▶ *Nepeta mussinii* Spreng., *Nepeta reichenbachiana* Fisch. et C.A. Mey.

Common Names ▶ Mussin Catnip; *German*: Mussin's Katzenminze, Traubige Katzenminze; *Korean*: hyanghynögge

Usage ▶ spice (sporadically); **product**: essential oil (with high content of geraniol and citronellol)

Parts Used ▶ herb

Distribution ▶ Europe, Turkey, former Soviet Union, Iran, Korea

Başer et al. 1993a; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Wolf 1955

Nepeta reichenbachiana Fisch. et C.A. Mey.

➤ *Nepeta racemosa* Lam.

Nepeta tenuifolia Benth.

Synonyms ▶ *Elsholtzia integrifolia* Benth.

Common Names ▶ Japanese catnip, *Chinese*: jing jie; *Korean*: hyönggye

Usage ▶ spice (sporadically); **product**: essential oil

Parts Used ▶ herb

Distribution ▶ China, Japan, Korea

Hanelt 2001

Nepeta transcaucasia Grossh.

Common Names ▶ Transcaucasian catnip; *German*: Transkaukasische Katzenminze, *Russian*: kotownik sakawasskii

Usage ▶ spice (sporadically); **product**: essential oil

Parts Used ▶ herb

Distribution ▶ Transcaucasia: Azerbaidzhan

Khilik et al. 1977, 1979; Mishurova/Shikhiev 1977

Nepeta vulgaris Lam.

➤ *Nepeta cataria* L.

NEPTUNIA Lour. - Mimosaceae

Neptunia oleraceae Lour.

Synonyms ▶ *Neptunia prostrata* (Lam.) Bail.

Common Names ▶ water mimosa; *Bengal*: panilajak; *German*: Wasser-Mimose; *Hindi*: lajalu; *Malaysian*: kaman ajer; *Thai*: phak krachet

Usage ▶ pot-herb (in India)

Parts Used ▶ sprout

Distribution ▶ tropical regions: India, Indochina, Malaysia, Australia, Mexico, S America, Africa

Arora/Pandey 1996; Chopra et al. 1956; Erhardt et al. 2002; Hanelt 2001; Usher 1968; Wealth of India 7, 1966; Wiersema/León 1999; Zeven/de Wet 1982

Neptunia prostrata (Lam.) Bail.

➤ *Neptunia olearacea* Lour.

Nicolaia elatior (Jack) Horan.

➤ *Etlingera elatior* (Jack) R.M. Sm.

Nicolaia solaris (Blume) Horan.

➤ *Etlingera solaris* (Blume) R.M. Smith

NIGELLA L. - Fennel Flower, Love-in-a-Mist - Ranunculaceae

Nigella arvensis L.

Synonyms ▶ *Nigella latifolia* Mill., *Nigella tenuifolia* Gilib.

Common Names ▶ wild fennel; *French*: nielle bâtarde, poivrette commun; *German*: Acker-Schwarzkümmel; *Russian*: tschernuschka polevaja

Usage ▶ spice, pot-herb

Parts Used ▶ seed, plant

Distribution ► C and E Europe, Turkey, Iraq, Levante, Caucasus, C Asia, Near East, N Africa

Aichele/Schwegler 2, 1994; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hooper 1937; Schnelle 1999; Schultze-Motel 1986; Täufel et al. 1993, Teuscher 2003

Nigella coerula Lam

► *Nigella damascena* L.

Nigella damascena L. ■

Synonyms ► *Nigella coerula* Lam., *Nigella pygmaea* Pers.

Common Names ► love-in-a-mist (plant), Damas black cumin, Jack-in-the-green, wild fennel; *Arabic*: habba souda, sinouj; *Dutch*: koiijn; *French*: barbide, bâtarde, cheveux de Vénus, nigelle de Damas; *German*: Damaszener Schwarzkümmel, Türkischer Schwarzkümmel, Braut in Haaren, Gretel im Busch, Jungfer im Grünen (plant); *Italian*: anigella, damigella, capigilate, scapigilate; *Russian*: tschnuschka damasskaja

Usage ► spice; **product**: essential oil

Parts Used ► seed

Distribution ► E and S Europe, Turkey, Cyprus, Caucasus, Iran, NW Africa, Libya; naturalized in C Europe

Note ► The seed oil is used in medicine and the perfume industry; the plant is a very popular worldwide as an ornament.

Aichele/Schwegler 2, 1994; Arctander 1960; Bärtels 1997; Bois 1934; Bremness 2001; Cheers 1997; Dalby 2000; Dudtschenko et al. 1989; Erhardt et al. 2002; Fico et al. 2003; Fleischhauer 2003; Groom 1997; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hepper 1992; Hoppe 1949; Oyen/Dung 1999; Paris et al. 1979; Redgrove 1933; Schweig 1999; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999; Zohary 1983

Nigella indica Roxb.

► *Nigella sativa* L.



■ *Nigella damascena*, flowering and fruiting

Nigella latifolia Mill.

► *Nigella arvensis* L.

Nigella pygmaea Pers.

► *Nigella damascena* L.

Nigella sativa L.

Synonyms ► *Nigella indica* Roxb., *Nigella truncata* Viv.

Common Names ► black caraway, black cumin, black seed, fennel flower, nutmeg flower, Roman coriander; small fennel; *Arabic*: habba souda, habbatul barakah; *French*: cheveux de Vénus, cumin noir, nigelle, nigelle de Crète, toute épice; *German*: Echter Schwarzkümmel, Römischer Schwarzkümmel, Schwarzer Koriander, Schabasamen; *Hindi*: kalaunji; kalonji, kalajira, mugrela; *Italian*: nigella, cominella, melantio; *Malaysian*: jintam hitam; *Portuguese*: cominho negro; *Russian*: tschernuschka

posevnaja, tschernij tmin, mazok, nigella, rimskij koriandr; *Sanskrit*: kalajaji, krishnajiraka; *Slovenian*: čerluška; *Spanish*: ajenuz, araniel, neguilla, nigelia cultivada, pasionara; *Turkish*: çörek otu

Usage ► spice

Parts Used ► seed

Distribution ► EC Europe, Mediterranean regions, Caucasus, Iran, SW and C Asia, N, E Africa, native in Europe; cultivated from Mediterranean regions to C Asia

Note ► The plant name at 16th Century in Germany "Schwartzter Coriander".

Abel Alla El-Sayed et al. 1997; Aitzetmüller 1997; Al-Jassir 1992; Atta 2003; Babayan et al. 1978; Bärtels 1997; Bois 1934; Boisvert/Huber 2000; Bürts/Bucar 1998; Cheers 1997; Coiciu/Racz (no year); Craze 2002; Datta/Rabg 2000; Daukšas et al. 2002; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; El-Dakhkhny 1965; El-Dhaw/Abdel-Munuem 1996; Erhardt et al. 2000, 2002; Gad et al. 1963; Guzman/Siemonsma 1999; Hager 4, 1992; Hanafy/Hatem 1991; Hanelt 2001; Hasan et al. 1989; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Ihrig 1997; Jansen 1981; Lautenbacher 1997; Leroy/Gillet 1964; Mahfouz/El-Dakhahny 1960; Menounos et al. 1986; Morris/Mackley 1999; Nergiz/Ötles 1993; Norman 1991; Pochljobkin 1974, 1977; Ramadan/Mörsel 2002a, b, 2003; Salem 2001; Salama 1973; Saleh Al-Jassier 1992; Schönfelder 2001; Schweig 1999; Seidemann 1993c; Siewek 1990; Small 1997; Takruri/Dameh 1998; Täufel et al. 1993; Teuscher 2003; Toppozada et al. 1965; Tucker 1986; Türkay et al. 1996; Uphof 1968; Ustun et al. 1990; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982; Zohary 1983



Nigella tenuiflora Gilib.

► *Nigella arvensis* L.



Nigella truncata Viv.

► *Nigella sativa* L.



Nigella spicifera Lam.

► *Chloranthus spicatus* (Thunb.) Makino



Nigella quassoides Buch-Ham.

► *Picrasma quassoides* Benn.



Nigella melioides Dennst.

► *Murraya koenigii* (L.) Spreng.



Nothopanax fruticosum Miq.

► *Polyscias fruticosa* (L.) Harms



Nyctanthes sambac L.

► *Jasminum sambac* (L.) Ait.

O

**Obione canescens** (Pursh) Moq.➤ *Atriplex canescens* (Pursh) Nutt.**OCHROCARPOS** Noranta ex Du
Petit-Thouars - Guttiferae**Ochrocarpus longifolius** (Wall.) Benth. et
Hook.f.**Synonyms** ▶ *Mammea longifolia* Wall.**Common Names** ▶ *Hindi*: nag kesar, surgi, suringi, sur-
ampunna, surabunai**Usage** ▶ spice (sporadically in India)**Parts Used** ▶ flower, flower bud**Distribution** ▶ West IndiesChopra et al. 1956; Hanelt 2001; Mohan Rao et al. 2002; Uphof
1968**OCIMUM L. - Basil -**
Lamiaceae (Labiatae)

Hiltunen/Holm 19

**Ocimum africanum** Lour.➤ *Ocimum americanum* L.**Ocimum album** L.➤ *Ocimum basilicum* L.**Ocimum americanum** L.**Synonyms** ▶ *Ocimum africanum* Lour., *Ocimum canum*
Sims; *Ocimum pilosum* Willd., *Ocimum simile*
N.E. Br.**Common Names** ▶ American basil, hoary basil, sweet ba-
sil; *Chinese*: hui luo le; *German*: Amerikanischer
Basilikum, Zitronen-Basilikum, Kampferbasili-
kum, Herero Buschtee; *Hindi*: ajak, kala tulsi; *Ma-
laysian*: kēmangi; *Portuguese*: manjeriçāo-branco;
Sanskrit: ajaka; *Spanish*: albahaca velluda; *Thai*:
maeng lak**Usage** ▶ pot-herb; **product**: camphor**Parts Used** ▶ leaf**Distribution** ▶ tropical Africa, China, India, Indochina,
Malaysia; former Soviet Union, Kenya, Pakistan,
native in Europe, Australia and the Neotropics**Note** ▶ In the essential oil are predominantly citral, lil-
anol and chavicol methylether.Anjaneyalu/Gowda 1978; Arora/Pandey 1996; Ayensu 1978; Bois
1934; Bournot 1968; Darrah 1980; Dudtschenko et al. 1989; Ekun-
dayo et al. 1989; Erhardt et al. 2002; Gupta 1994; Hanelt 2001;
Herklots 1972; Hiller/Melzig 1999; v. Koenen 1996; Mikus et al.
1997; Ntezurubanza et al. 1985; Paton 1992; Plescher et al. 1997;
Schultze-Motel 2003; Seidemann 1993c; Sharma 2003; Siemons-
ma/Piluek 1993; Sinha/Gulati 1990; Small 1997; Täufel et al. 1993;
Teuscher 2003; Thappa et al. 1979; Upadhyay et al. 1991; Uphof
1968; Xaasan et al. 1980, 1981; Zeven de Wet 1982

 Ocimum americanum Jacq.

➤ *Ocimum basilicum* L.

 Ocimum americanum sensu Pushpangadan et Soboti non L.

➤ *Ocimum x citriodorum* Vis.

 Ocimum basilicum L.

Synonyms ▶ *Basilicum citratum* Rumph., *Ocimum album* L., *Ocimum americanum* Jacq., *Ocimum menthaefolium* Hochst. ex Benth.

Common Names ▶ common basil, lemon basil, monk's basil, sweet basil, basil; *Arabic*: kamahim, habag, raihân, rehan; *Brazil (Portuguese)*: manjeriço, alfavaca; *Dutch*: basilicum; *Chinese*: lo-le, lou le, hstang tsa i tzu tsaio; *French*: basilic, basilic commun, grand basile, herbe royale; *German*: Basilienskraut, Basilikum, Braunsilge, Deutsches Pfefferkraut, Königskraut, Herrenkraut, Suppenbasil; *Hindi*: bavri, bavai; *India*: babui tulsi, sada tulas; *Italian*: basilico; *Japanese*: mebôki; *Malay-sian*: kemangi, pokok, ruku, selasseh uteh; *Portuguese*: manjeriço; *Russian*: basilik, duschki, duschistje wasil'ki, *Sanskrit*: barbari, munjariki, surasa, tungi, varvara; *Spanish*: alebega, albahaca; *Thai*: bai horapa; *Vietnamese*: rau (hung) que

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf,

Distribution ▶ tropical Africa, tropical America, former Soviet Union; widely cultivated, possible origin in Africa (Madagascar) or NW India

Note ▶ This species is morphologically and chemically very heterogeneous.

Aichele/Schwegler 4, 1995; Akgül 1989; Ayensu 1978; Bärtels 1997; Berger 2, 1940; 4, 1954; Bois 1934; Bournot 1968; Bremness 2001; Brophy/Jogia 1986; di Cesare et al. 2002; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Czygan 1997; Darrah 1980; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Farrell 1085; Fatope/Takeda 1988; Fleisher 1981; Grayer et al. 1996; Guzman/Siemonsma 1999; Hager 5, 1993; Hall 1981; Hay/Waterman 1993; Heeger 1956; Herklots 1972; Hiller/Melzig 1999; Hoffmann et al. 1992; Hondelmann 2002; Hoppe 1949; Jain/Jain 1973; Jansen 1981; Javanmardi et al. 2002; Jayasinghe et al. 2003; Kumar 2003; Lachowicz et al. 1996; Lawrence et al. 1972; Loughrin/Kasperbauer 2001, 2003; Mahesh-



 **Ocimum basilicum, flowering**

wari/Singh 1989; Marzell 1970; Metzger 1984; Ozcan/Chalchat 2002; Özek et al. 1995; Pääkkönen 1990; Peter 1978, 2001; Pino et al. 1994a; Plescher et al. 1998; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Pudalosi 1996; Randkawa/Gill 1995; Randriamiharisoa 1986; Rosengarten 1969; Roth/Kormann 1997; Sánchez et al. 1985; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993; Seidemann/Siebert 1987; Sharma 2003; Shen et al. 1991; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Stuart et al. 1994; Suchorska-Tropilo/Osinska 2001; Tada et al. 1996; Täufel et al. 1993; Teufel 2003; Teuscher 2003; Tucker 1986; Ubillos 1989; Uphof 1968; Vasconcelos et al. 2003; Villamar et al. 1994; Wyk et al. 2004; Zeven/de Wet 1982; Zole/Garnero 1973

 Ocimum basilicum L. *var. anisatum* Benth.

➤ *Ocimum x citriodorum* Vis.

 Ocimum basilicum L. x **Ocimum americanum** L.

➤ *Ocimum x citriodorum* Vis.

 Ocimum basilicum L. ssp. basilicum

Synonyms ► *Ocimum bullatum* Lam., *Ocimum caryophyllatum* Roxb., *Ocimum citriodorum* Blanco, *Ocimum integerrimum* Willd., *Ocimum lanceolatum* Schum. et Thonn., *Ocimum medium* Mill., *Ocimum thyrsoflorum* L.

Common Names ► basil; *Arabic*: rehan; *Chinese*: luò de; *German*: Griechischer Buschthymian; *Hindi*: babui tulsi; *Italian*: basilico; *Malaysian*: sɛlasi; *Portuguese*: alfaraca; *Russian*: bazilik; *Spanish*: albahaca

Usage ► spice; **product**: essential oil, are used in the spice and perfumery industry

Parts Used ► leaf

Distribution ► cultivated in subtropical regions

Darrah 1980; Hanelt 2001; Plescher et al. 1997;

 Ocimum basilicum L. ssp. minimum (L.) Danert

Synonyms ► *Ocimum minimum* L.

Common Names ► bush basil, Greek basil, little basil; *German*: Kleiner or Busch-Basilikum

Usage ► spice

Parts Used ► leaf (sporadically)

Distribution ► Asia: India, commonly cultivated

Bournot 1968; Bremness 2001; Hanelt 2001; Ozcan/Chalchat 2002; Plescher et al. 1997; Shaiva et al. 2002; Vasconcelos et al. 2003

 Ocimum basilicum L. var. purpurescens Benth.

Common Names ► *German*: Rot(blättriger) Basilikum

Usage ► spice

Parts Used ► leaf (sporadically)

Distribution ► also cultivated

Bournot 1968; Bremness 2001; Darrah 1980; Hanelt 2001; Suchorska/Osinska 1992; Vasconcelos et al. 2003;

 Ocimum bullatum Lam.

► *Ocimum basicilum*. L. ssp. basilicum

 Ocimum campechianum Mill.

► *Ocimum micranthemum* Willd.

 Ocimum canum Sims

► *Ocimum americanum* L.

 Ocimum caryophyllatum Roxb.

► *Ocimum basilicum* L. ssp. basilicum

 Ocimum citriodorum Blanco

► *Ocimum basilicum* L. ssp. basilicum

 Ocimum x citriodorum Vis.

Synonyms ► *Ocimum americanum sensu* Pushpangadan et Sobti non L., *Ocimum basilicum* L. x *Ocimum americanum* L., *Ocimum basilicum* var. *anisatum* Benth., *Ozimum citratum* Rumph., *Ocimum dichotomum* Hochst. ex Benth.

Common Names ► lemon basil; *German*: Zitronenbasilikum

Usage ► spice, pot-herb

Parts Used ► leaf

Distribution ► NE tropical Africa, Arabia, tropical Asia China, W Asia, India, widely cultivated elsewhere in Africa and Asia

Bremness 2001; Darrah 1980; Hanelt 2001; Mikus et al. 1997; Paton 1992; Verma et al. 1989

 Ocimum crispum Thunb.

► *Perilla frutescens* (L.) Britton

 Ocimum dichotomum Hochst ex Benth.

► *Ocimum x citriodotum* Vis.

 Ocimum febrifugum Lindl

➤ *Ocimum gratissimum* L.

 Ocimum forskolei Benth.

Synonyms ▶ *Ocimum menthiifolium* Hochst ex Benth.

Common Names ▶ *German*: Minzblättriger Basilikum;

Russian: basilik m'jatolistnis

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ Arabia, Egypt, Yemen, Sudan, Somalia, Ethiopia, N, E Kenya

Dudtschenko et al. 1989; Hiltunen/Holm 1999

 Ocimum frutescens L.

➤ *Perilla frutescens* (L.) Britton

 Ocimum gratissimum L.

Synonyms ▶ *Ocimum febrifugum* Lindl., *Ocimum guineense* Schum. et Thonn., *Ocimum viride* Willd.

Common Names ▶ fever plant, clove or Russian basil, shrubby basil, tea bush; *Brazil (Portuguese)*: al-favacão; *Chinese*: wu mao ding x lu o le; *French*: menthe gabonaise, basilic de Ceylan; *German*: Afrikanischer Basilikum, Duft- or Nelken-Basilikum, Ostindischer Basilikum; *Hindi*: ram tulsi, vriadhatulasi; *Malaysian*: ruku-ruku hitam, sèlasi bèsar; *Spanish*: albahaca de clavo; *Thai*: kaphrao-chang, horapha-chang, yira; *Vietnamese*: huong nhu trang

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ Africa, India, Indochina, Malaysia, native in the Neotropics

Note ▶ Eugenol, thymol or citral are predominant by type.

Abani 1988; Aedo et al. 2001; Ayensu 1978; Berger 2, 1950; Bois 1934; Bournot 1968; Charles/Simon 1992b; Darrah 1980; Droh/Hefendehl 1974; Dudtschenko et al. 1989; Gurib-Fakim/Brendler 2004; Herklots 1972; Jiroretz et al. 1998; Khasla 1995; Kumar 2001;

Mikus/Schaser 1995; Mikus et al. 1997; Ntezurubanza 1987; Oyen/Dung 1999; Paton 1992; Plescher et al. 1997; Saroratto/Augusto 2003; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Sofowora 1970; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Turova et al. 1987; Uphof 1968; WHO 1990; Wiersema/León 1999; Zeven/de Wet 1982

 Ocimum graveolens A. Br.

Common Names ▶ *German*: Duft-Basilikum

Usage ▶ condiment

Parts Used ▶ herb

Distribution ▶ Ethiopia

Uphof 1968

 Ocimum guineense Schum. et Thonn.

➤ *Ocimum gratissimum* L.

 Ocimum integerrimum Willd.

➤ *Ocimum basilicum* L. ssp. *basilicum*

 Ocimum kilimandscharicum Guerke ■

Common Names ▶ Kilimandscharo basil, camphor basil; *German*: Kilimandscharo-Basilikum, Kampfer-Basilikum; *Hindi*: kapur tulsi; *Russian*: basiliki kilimandshars'ki

Usage ▶ spice (locally); **product**: camphor

Parts Used ▶ leaf

Distribution ▶ tropical E Africa: Kenya, Uganda, Tanzania; introduced elsewhere in the Tropics

Note ▶ Cultivated during World War II for the preparation of camphor. The plant has an austere aroma of camphor and is a substitute for *Cinnamomum camphora* (L.) J. Presl.

Bekele/Hassanali 2001; Charles/Simon 1992b; Darrah 1980; Mansfeld 1986; Paton 1992; Plescher et al. 1997; Schultze-Motel 1986; Sharma 2003; Shiva et al. 2002; Small 1997; Teuscher 2003; Tucker 1986; Uphof 1968; Wealth of India 7, 1991; Zeven/de Wet 1982



Usage ▶ spice (locally)

Parts Used ▶ leaf

Distribution ▶ S Florida, the Bahamas, West-India, from Mexico to Peru, Chile and Brazil

Note ▶ The plant is strongly aromatic.

Charles et al. 1990; Darrah 1980; Ferreira et al. 1992; Mors et al. 2000; Morton 1981; Small 1997; Teuscher 2003; Uphof 1968; Vil-lamar et al. 1994



Ocimum minimum L.

▶ *Ocimum basilicum ssp. minimum (L.) Danert*



Ocimum pilosum Willd.

▶ *Ocimum americanum L.*



Ocimum sanctum L.

▶ *Ocimum tenuiflorum L.*



Ocimum simile N.E. Br.

▶ *Ocimum americanum L.*



Ocimum stamineum Sims

▶ *Ocimum canum Sims*



Ocimum suave Willd.

Common Names ▶ African basil, sweet scented basil;

German: Afrikanischer Basilikum;

Usage ▶ spice

Parts Used ▶ leaf, herb

Distribution ▶ tropical Africa: Guinea, N Nigeria, S Sudan, Ethiopia, Kenya, Tanzania, Mozambique, Uganda; Sri Lanka

Darrah 1980; Mikus et al 1997; Mikus et al. 1997; Paton 1992; Plescher et al. 1997; Schultze-Motel 1986; Tétényi et al. 1986; Teuscher 2003



Ocimum lanceolatum Schum. et Thonn.

▶ *Ocimum basilicum L. ssp. basilicum*



Ocimum medium Mill.

▶ *Ocimum basilicum L. ssp. basilicum*



Ocimum menthiifolium Hochst. ex Benth.

▶ *Ocimum forskolei Benth.*



Ocimum micranthemum Willd.

Synonyms ▶ *Ocimum campechianum* Mill.

Common Names ▶ Peru basil; *German:* Peruanischer Basilikum; *Mexico:* albahaca, albahaca de monte, kakaltum, albaca silvestre, salvaca; *Portuguese:* alfavaca, alfavaca-do-campo, mangericao-grande

 Ocimum tenuiflorum L.

Synonyms ► *Ocimum sanctum* L.

Common Names ► holy basil, sacred basil, Thai basil, mosquito plant of South Africa; *Cambodian*: mrèah prèu; *Chinese*: sheng luo le; *French*: basilic des moines, basilic sacré; *German*: Duftender Basilikum, Indischer Basilikum, Kleiner Basilikum, Heiliger Basilikum, Grüner Tulsi, Tulasibasilikum, Tulsiplanze; *Hindi*: tulsi; *India*: kala tulasi; *Indonesian*: kemangi utan, lampes, ruku-ruku; *Korean*: kanuniphyangkulphul; *Malaysian*: oku, ruku ruku, selash hitans, ulasi; *Pilipino*: balonoi, cologoco, loko loko, solasi; *Russian*: basilik swajaschenujy; *Sanskrit*: parnasa, suvasa tulasi, tulashi; *Spanish*: albahaca cimarrona, albahaca morada criolla; *Thai*: bai ga-prow, im-khim-lam, kaphrao, kom kodong; *Vietnamese*: e do, e tia, kung nhu tai

Usage ► spice; **product**: essential oil

Parts Used ► leaf, herb

Distribution ► tropical Asia: India, Malaysia, native elsewhere in Tropics and widely cultivated

Note ► Eugenol, chavibetol or chavicol methyl ether are predominant types. Frequently cultivated in courtyards and around temples in India for about 3000 years.

Berger 4, 1954; Bois 1934; Brophy/Jogia 1984; Brophy et al. 1993; Cheers 1997; Chogo/Crank 1981; Darrah 1980; Dudtschenko et al. 1989; Erhardt et al. 2002; Gurib-Fakim/Brendler 2004; Guzman/Siemonsma 1999; Herklots 1972; Hiltunen/Holm 1999; Kelm et al. 2000; Kottegoda 1994; Lal et al. 1978; Lawrence et al. 1972; Naranda Singh/Sharma 1980; Plescher et al. 1997; Seidemann 1993c; Sharma 2003; Skaltsa-Diamantidis et al. 1990; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Turova et al. 1987; Uphof 1968; Verma et al. 1989; WHO 1990; Wiersema/León 1999; Zeven/de Wet 1982

 Ocimum thyrsiflorum L.

► *Ocimum basilicum* L. ssp. *basilicum*

 Ocimum viride Will.

► *Ocimum gratissimum* L.

**OCOTEA Aubl. -
Lauraceae**
 Ocotea cujumary Mart.

Common Names ► *Brazil (Portuguese)*: cujumaru, cui-maru, cuimari, louro-cujumari

Usage ► flavoring (locally)

Parts Used ► bark, fruit

Distribution ► Amazonia

Mors et al. 2000

 Ocotea cinnamomoides (Mutis ex Kunth) Kosterm.

► *Ocotea cymbarum* H.B.K.

 Ocotea cymbarum H.B.K.

Synonyms ► *Laurus cinnamomoides* Mutis ex H.B.K., *Nectandra cinnamoides* Nees, *Nectandra cymbarum* (H.B.K.) Nees, *Ocotea cinnamomoides* (Mutis ex Kunth) Kosterm.

Common Names ► canela; *Portuguese (Brazil)*: louro inamuty, louro mamory, koto; *Spanish*: canela do mato

Usage ► spice

Parts Used ► bark of young shoots, flower cup

Distribution ► tropical S America: Brazil, Ecuador

Note ► In Ecuador the inflorescence is also used as a spice.

Bois 1934; Bourton 1968; Gottlieb/Gottlieb 1980; Mors et al. 2000; Naranjo et al. 1981; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; Teuscher 2003; Uphof 1968; Zeven/Zhukovsky 1975

 Ocotea puchury-major Mart.

Synonyms ► *Acroclidium puchury-major* (Nees et Mart. ex Nees) Mez., *Licaria puchury-major* (Mart.) Kosterm., *Nectandra puchury-major* Nees et Mart.

Common Names ► *Brazil*: louro-puxuri, pichuri, pixurim, puchuri; *German*: Große Macisbohne, Pichurinuss, Pichurimbohne, Sassafrasnuss

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ S America: Amazonia, Brazil also cultivated

Note ▶ Spike is like the mace from nutmeg.

Hanelt 2001; Hiller/Melzig 1999; Mors et al. 2000; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Usher 1968; Wiersema/León 1999



Ocotea quixos (Lam.) Kosterm.

Synonyms ▶ *Laurus quixos* Lam., *Licaria quixos* (Lam.) Kosterm.

Common Names ▶ American cinnamon, ocotea, *German*: Amerikanischer Zimt; *Peru*: ispungu

Usage ▶ spice (for sweets)

Parts Used ▶ flores, fruit-cup

Distribution ▶ S America: Brazil, also cultivated for the cinnamon-like fragrance

Note ▶ The flowers and leaves have a cinnamon taste.

Hanelt 2001; Naranjo 1981; Naranjo et al. 1981; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; Teuscher 2003



Ocotea pretiosa (Nees) Mez

Common Names ▶ false sassafras; *Brazil (Portuguese)*: canela-sassafrás; *German*: Brasilianischer Sassafras

Usage ▶ spice, flavoring; **product**: essential oil

Parts Used ▶ bark, leaf

Distribution ▶ S America: Brazil

Hickey 1948; Kumar 2001; Mors et al. 1959, 2000

OENANTHE L. - Water Dropwort - Apiaceae (Umbelliferae)



Oenanthe javanica (Bl.) DC.

Synonyms ▶ *Oenanthe japonica* Miq., *Oenanthera linearis* DC., *Oenanthera stolonifera* Wall., *Sium javanicum* L., *Sium laciniatum* Bl.

Common Names ▶ Javan water dropwort, water celery,

water parsley, water dropwort, oriental celery; *Arabic*: oshb el-maa almodala; *Chinese*: chin tsai, chu kuen, ku chin, shui ching; *Dutch*: torkruid; *French*: persil séri; *German*: Javanischer or Vietnamesischer Wasserfenchel, Wassersellerie; *Hindi*: saya; *Italian*: finocchio-acquatico; *Japanese*: seri, shijriba; *Javanese*: pampung; *Korean*: minari; *Malaysian*: pamponng, selom, selom piopo; *Portuguese*: funcho aquático, funcho oriental, cicuta; *Russian*: omaznik javanskij; *Spanish*: cicuta, enante, felandrio, hinojo de agua; *Thai*: phakchilom; *Vietnamese*: can nuoc

Usage ▶ spice, condiment in India, flavoring soups, chicken or fish dishes

Parts Used ▶ herb, young shoots

Distribution ▶ S, SE and E Asia from Pakistan to Japan, from Far E Russia to Australia: Queensland also cultivated

Note ▶ Culinary herb also in N America (Canada: Ontario).

Arora/Pandey 1996; Cheers 1997; Davidson 1999; Erhardt et al. 2002; Kuebal/Tucker 1988; Kumar 2003; Larkcom 1991; Lück 2004; Ogle et al. 2003; Schultze-Motel 1986; Small 1997; Tucker 1986; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982



Oenanthe stolonifera Wall.

▶ *Oenanthe javanica* (Bl.) DC.



Oenanthera linearis DC

▶ *Oenanthe javanica* (Bl.) DC.

OLAX L. - Olacaceae



Olox scandens Roxb.

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ SE Asia

Terra 1966

 Olex viridis Oliv.

Usage ► spice

Parts Used ► seed

Distribution ► W Africa: Gabun; S Africa

Burkill 4, 1997; Jansen 1981; Mabberley 1997; Neuwinger 1999

 Olex zeylanica L.

Usage ► condiment (locally)

Parts Used ► leaf, fruit

Distribution ► W Himalayas, India, Sri Lanka

Note ► Leaves and fruits have a smell and a slight taste of garlic.

Mabberley 1997

 Olea fragrans Thunb.

► *Osmanthus fragrans* (Thunb.) Lour.

 Orellana americana Kuntze

► *Bixa orellana* L.

ORIGANUM L. - Majoram, Oregano - Lamiaceae (Labiatae)

Calpouzios 1954; Fleisher/Sneer 1982; Kintzios 2002; Wilkins/Madsen 1991;

 Origanum album Salisb.

► *Origanum onites* L.

 Origanum anglicum Hill

► *Origanum vulgare* L. ssp. *vulgare*

 Origanum x appli (Domin) Boros

► *Origanum x majoricum* Cambess.

 Origanum bucharicum Bornm.

► *Origanum vulgare* L. ssp. *gracile* (Loch) Ietswart

 Origanum compactum Benth.

► *Origanum vulgare* L. ssp. *vulgare*

 Origanum creticum L.

► *Origanum vulgare* L. ssp. *vulgare*

 Origanum dictamnus L.

Synonyms ► *Dictamnus creticus* J. Hill, *Majorana dictamnus* (L.) Kostel., *Majorana tomen-tosa* (Moench) Stokes, *Origanum saxatile* Salisb.

Common Names ► dittander, Crete dittany, dittany of Crete; *French*: dictame de Crete; *German*: Diptam-dost(en), Kretischer Dost, Pfefferkraut; *Italian*: dittamo cretico

Usage ► spice, pot-herb; **product** for distilleries

Parts Used ► leaf

Distribution ► Greece: Crete; England, Italy, cultivated in USA, Crete, England

Berger 4, 1954; Bois 1934; Bosabalidis 1987, 1990a; Bosabalidis/Tsekos 1982; Charalambous 1994; Cheers 1997; Clebsch 1997; Davidson 1999; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Harvala et al. 198a; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Ietswaart 1980; Möller et al. 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003

 Origanum floridum Salisb.

► *Origanum vulgare* L. ssp. *viride* (Boiss.) Hayek

 Origanum glandulosum Desf.

➤ *Origanum vulgare* L. ssp. *vulgare*

 Origanum gracile Koch

➤ *Origanum vulgare* ssp. *gracile* (Koch) Letswaart

 Origanum heracleoticum L.

➤ *Origanum vulgare* L. ssp. *hirtum* (Link) Letsw. and

➤ *Origanum vulgare* L. ssp. *viride* (Boiss.) Hayek.

 Origanum humile Mill.

➤ *Origanum vulgare* L. ssp. *viride* (Boiss.) Hayek

 Origanum indicum Roth

➤ *Pogostemon heyneanus* Benth.

 Origanum macrostachyum Hoffmanns & Link

➤ *Origanum vulgare* L. ssp. *virens* (Hoffmanns. et Link) Letswaart

 Origanum majorana L. ■

Synonyms ► *Majorana hortensis* Moench.

Common Names ► marjoram; sweet majoram, knotted majoram; *Arabic*: bardagoush, barsagusha, mardqouche, mizunjuske; *Dutch*: marjolein; *French*: marjolaine, origane; *German*: Gartendost, Majoran, Meiran, Wurstkraut; *Hindi*: marua, murwa, sathra; *Italian*: maggiorana, persia; *Portuguese*: mangerona; *Russian*: majoran, majoran sadowyj, duschiza sadowaja, kolbasnaja trawa, borstirochi; *Sanskrit*: kharapatra, marubaka; *Spanish*: mejorana; *Turkish*: makiron

Usage ► spice, pot-herb; **product**: essential oil (flavoring of foods, liqueurs, perfume)

Parts Used ► herb, leaf



■ **Origanum majorana**, flowering

Distribution ► N Africa, Cyprus, Anatolia, Egypt; Arabia, SW Asia, India, native in Tunisia, Spain, Corsica, Italy, France, Germany, Balkan Peninsula; also cultivated

Abou-Zied 1973; Bärtels 1997; Başer et al. 1993d; Berger 4, 1954; Bertelli et al. 2003; Bois 1934; Bremness 2001; Cheers 1997; Circella et al. 1995; Clair 1961; Coiciu/Racz (no year); Davidson 1999; Deans/Svoboda 1990; Dubial 1988; Dudtschenko et al. 1989; Farrell 1985; Fischer et al. 1985, 1987; Graner 1968; Guzman/Siemonsma 1999; Hager 5, 1993; Hanelt 2001; Heeger 1956; Heine 1993; Hepper 1992; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; letswaart 1980; Karawya/Hifnawy 1976; Kawabata et al. 2003; Komaitis et al. 1992; Lagouri et al. 1993; Lossner 1967, 1968; Melchior/Kastner 1974; Novak et al. 2002; Nykänen 1986; Oberdick 1983, 1989, 1990; Omer et al. 1994; Peter 2001; Pochljobkin 1974, 1977; Pschyrembel 1998; Raghavan et al. 1997; Refaat et al. 1992/93; Roth/Kormann 1997; Ruberto et al. 1993; Şarer et al. 1982; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siewek 1990; Singh et al. 1996; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Ubillos 1989; Vagi et al. 2002; Villamar et al. 1994; Zeven/de Wet 1982

 Origanum x majorana *Cambess.*

[*Origanum majorana* x *Origanum vulgare* ssp. *vulgare* or *Origanum majorana* x *vulgare* ssp. *virens*]

Synonyms ► *Majorana hortensis* Moench, *Majorana majorica* (Cambess.) Briq., *Origanum x appli* (Domin) Boros, *Origanum paniculatum* Koch

Common Names ► Italian oregano, hardy marjoram; *German*: Italienischer Majoran

Usage ► pot-herb

Parts Used ► leaf, herb

Distribution ► SW Europe: Spain, Portugal, Balearic Islands, also cultivated in gardens of W, S and C Europe, USA, S America: Argentina, Brazil, Uruguay

Bremness 2001; Erhardt et al. 2002; Hanelt 2001; Lawrence 1984; Ietswaart 1980; Sartoratto/Augusto 2003; Seidemann 1993c; Small 1997; Täufel et al. 1993; Tucker 1986; Wilkins/Madsen 1991; Ydava/Saini 1991

 Origanum maru *L.*

► *Origanum syriacum* *L.*

 Origanum microphyllum (*Benth.*) Boiss.

Common Names ► microphylla oregano, small-leaved oregano; *French*: origan à petites feuilles; *German*: Schmalblättriger Oregano

Usage ► spice

Parts Used ► leaf, herb

Distribution ► native to Crete, cultivated in gardens in N America

Ietswaart 1980; Small 1997

 Origanum normale *D. Don*

► *Origanum vulgare* *L.* ssp. *viride* (Bois.) Hayek

 Origanum onites *L.*

Synonyms ► *Majorana cretica* Mill., *Majorana onites* (L.) Benth., *Origanum album* Salisb.

Common Names ► pot marjoram, Spanish hop; Turkish oregano, Cretan oregano; *French*: origan de chypre; *German*: Griechischer or Kretischer Dost, Ragani, Spanischer Hopfen, Französischer or Wilder Majoran; *Italian*: origano siciliano

Usage ► spice; **product**: essential oil (with a high carvacrol content)

Parts Used ► leaf, herb

Distribution ► S Europe: E Sicily, S Greece; W, S Anatolia, local cultivated in many Mediterranean countries.

Akgül/Bayrak 1987; Berger 4, 1954; Bois 1934; Bournot 1968; Bremness 2001; Cheers 1997; Davidson 1999; Erhardt et al. 2002; Griebel 1938; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Ietswaart 1980; Kivanç/Akgül 1989; Melchior/Kastner 1974; Pizzale et al. 2002; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Vokou et al. 1988

 Origanum orientale *Mill.*

► *Origanum vulgare* *L.* ssp. *vulgare*

 Origanum paniculatum *Koch*

► *Origanum x majorana* *Cambess.*

 Origanum saxatile *Salisb.*

► *Origanum dictamnus* *L.*

 Origanum smirnaeum *Sibth. et Sm.*

► *Origanum vulgare* *L.* ssp. *glandulosum* (Desf.) Ietswaart

 Origanum syriacum *L.*

Synonyms ► *Amaracus syriacus* (L.) Stokes, *Majorana crassa* Moench, *Origanum maru* *L.*

Common Names ▶ Syrian oregano, white oregano; *Arabic*: za'atar; *French*: origan d'Egypte; *German*: Biblischer Oregano, Brauner Dost, Syrischer Dost, Arabischer Majoran, Syrischer Majoran, Echter Staudenmajoran; *Vietnamese*: rau kingh gioi;

Usage ▶ spice

Parts Used ▶ leaf, herb; **product**: essential oil (two chemotypes: carvacrol and thymol type)

Distribution ▶ E Mediterranean Region: S Anatolia, Cyprus, Syria, Lebanon, Israel, Jordan, Egypt, Sinai Peninsula

Note ▶ The plant is the biblical oregano.

Akgül/Bayrak 1987; Bärtels 1997; Baser et al. 2003; Berger 4, 1954; Bois 1934; Bourton 1968; Dudai et al. 1988; Fleisher/Fleisher 1988; Hager 5, 1993; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Ietswaart 1980; Kamel et al. 2001; Ophof 1968; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Tümen/Başer 1993

Origanum tyttantum Gontsch

▶ *Origanum vulgare* L. ssp. *gracile* (Loch) Ietswaart

Origanum virens Hoffmanns et Link

▶ *Origanum vulgare* L. ssp. *virens* (Hoffmanns. et Link) Ietswaart

Origanum viridulum Martrin-Donos

▶ *Origanum vulgare* L. ssp. *viride* (Boiss.) Hayek

Origanum vulgare L.

Synonyms ▶ *Thymus origanum* E.H.L. Krause

Common Names ▶ oregano, wild marjoram, pot marjoram, winter marjoram, winter sweet, pizza herb; *Arabic*: mardakosh; *Chinese*: niu zhi, tu xiang ru; *Dutch*: wilde marjolein; *French*: marjolaine sauvage, origan commun, origan vulgaire; *German*: Gewöhnlicher Dost, Wilder Majoran, Falscher Staudenmajoran, Orangenkraut, Oregano; Wintermajoran; *Hindi*: sathra; *Italian*: origano comune, maggiovana selvatica, regamo; *Japanese*: oregano; *Portuguese*: orégãno; *Russian*: lutschiza, lutshitza abyknowennaja, materinka, ladanka,

mazerdyschka, bloschiza, dushitsa, senowka, kara gynych; *Spanish*: orégano, oregano comun; *Turkish*: kekig orégano común, mercanköşk

Usage ▶ spice, pot-herb; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ Europe, Turkey, Cyprus, Iraq, Iran, W and E Siberia, C Asia, Afghanistan, Pakistan; Himalayas, Mongolia, NW Africa, native in N America, China

Aichele/Schwegler 4, 1995; Arora/Pandey 1996; Bärtels 1997; Bordini et al. 2002; Bois 1934; Bremness 2001; Cervato et al. 2000; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hager 5, 1993; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hondelmann 2002; Hoppe 1949; Kikuzaki/Nakatani 1989; Melchior/Kastner 1974; Miloš et al. 2000; Ondarza/Sanchez 1990; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Puertas-Mejia et al. 2002; Rodrigues et al. 2003; Rosengarten 1969; Roth/Kormann 1986; Salmeron et al. 1990; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Siewek 1990; Small 1997; Staesche 1972; Teuscher 2003; Tucker 1986; Turova et al. 1987; Ubillos 1989; Uhl 2000; Vekiari et al. 1993a, b; Villamar et al. 1994; Werker et al. 1985; Wyk et al. 2004; Zeven/de Wet 1982

Origanum vulgare L. ssp. *glandulosum* (Desf.) Ietswaart

Synonyms ▶ *Origanum glandulosum* Desf.; *Origanum smirnaeum* Sibth. et Sm.

Common Names ▶ *German*: Drüsiger Dost

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ N Africa: N Algeria, Tunisia

Hanelt 2001; Ietswaart 1980; Tucker 1986

Origanum vulgare L. ssp. *gracile* (Koch) Letsw.

Synonyms ▶ *Origanum bucharicum* Bornm., *Origanum gracile* Koch, *Origanum tyttantum* Gontsch

Common Names ▶ Russian oregano, Turkestan oregano; *German*: Kirgisischer Oregano, Schlanker Dost

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ E Anatolia, N Iraq, Iran, Pakistan, Afghanistan, C Asia: Pamiroalai, W Tien Shan

Berger 4, 1954; Hanelt 2001; Ietswaart 1980; Schultze-Motel 1986; Tucker 1986



Origanum vulgare L. subsp. hirtum (Link)

Letsw.

Synonyms ▶ *Origanum heracleoticum* L., *Origanum smyrnaeum* Sibth. et Sm.

Common Names ▶ Greek or Italian oregano; *German*: Falscher Staudenmajoran; Griechischer Dost, Italienischer Dost, Pizza Oregano

Usage ▶ spice, pot-herb; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ Europe: Italy, Sicily, Greece, Turkey

Akgül/Bayrak 1987; Baser et al. 1994a; Berger 4, 1954; Bremness 2001; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Ietswaart 1980; Melchior/Kastner 1974; Milos et al. 2000; Schönfelder 2001; Schultze-Motel 1986; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Veres et al. 2003



Origanum vulgare L. ssp. virens (Hoffmanns & Link) Letsw.

Synonyms ▶ *Origanum virens* Hoffmanns & Link, *Origanum macrostachyum* Hoffmanns et Link

Common Names ▶ wild majoran; *German*: Wilder Majoran

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ W Mediterranean: Azores, Canary Islands, Madeira, Iberian Peninsula, N Africa, Balearic Islands, also cultivated in Argentina (gardens)

Berger 4, 1954; Bournot 1968; Hanelt 2001; Hohmann 1968; Hiller/Melzig 1999; Ietswaart 1980; Tucker 1986



Origanum vulgare L. ssp. viride (Boiss.)

Hayek

Synonyms ▶ *Origanum heracleoticum* L., *Origanum humile* Mill., *Origanum normale* G. Don, *Origanum viridulum* Martini-Donos

Common Names ▶ wild marjoram; *German*: Falscher Staudenmajoran

Usage ▶ spice, condiment

Parts Used ▶ herb

Distribution ▶ S Europe (Italy) to E Asia: E China, also cultivated and in USA

Berger 4, 1954; Bois 1934; Erhardt et al. 2002; Hanelt 2001; Ietswaart 1980; Melchior/Kastner 1974; Schönfelder 2001; Tucker 1986



Origanum vulgare L. ssp. vulgare

Synonyms ▶ *Origanum angelicum* Hill., *Origanum compactum* Benth., *Origanum creticum* L., *Origanum floridum* Salisb., *Origanum latifolium* Mill., *Origanum orientale* Mill.

Common Names ▶ Oregano, wild marjoram; *French*: marjolaine, origan; *German*: Kretischer Dost, Oregano

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ N regions of the world: N Europe, N America

Berger 4, 1954; Bois 1934; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Ietswaart 1980; Maarse/van Ost 1973a, b, 1974; Melchior/Kastner 1974; Mockute et al. 20001; Schultze-Motel 1986; Uphof 1968; Veres et al. 2003

OSMANTHUS Lour. - Devil Wood, Sweet Olive - Oleaceae



Osmanthus asiaticus Nakai

▶ *Osmanthus fragrans (Thunb.) Lour.*



Osmanthus fragrans (Thunb.) Lour.

Synonyms ▶ *Olea fragrans* Thunb., *Osmanthus asiaticus* Nakai

Common Names ▶ fragrant olive, sweet olive, tea olive; sweet osmanthus flower; *Chinese*: gui hua, yen kuei, mu hsi, *German*: Osmanthusblüten, Süße Duftblüte; *Japanese*: usugi mokusei, gin mokusei, kiu mokusei; *Vietnamese*: cay moc

Usage ▶ flavoring of tea and cake

Parts Used ▶ flower

Distribution ▶ Japan, SW China; E Himalayas

Bois 1934; Clebsch 1997; Duke/Ayensu 1985; Erhardt et al. 2002; Fleischmann et al. 2002; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Wealth of India 7, 1966; Wiersema/León 1999; Zeven/de Wet 1982

OSMORHIZA Michx. - Apiaceae (Umbelliferae)

Osmorhiza claytonii (Michx.) C.B. Clarke

Common Names ▶ sweet jarvil
Usage ▶ condiment
Parts Used ▶ root, unripe seed
Distribution ▶ C, E Canada, USA
Note ▶ The plant has an anise-like aroma.

Small 1997

Osmorhiza longistylis (Torr.) DC.

Usage ▶ condiment
Parts Used ▶ leaf
Distribution ▶ W, N America
Note ▶ The plant has an anise-like aroma.

Mabberly 1997; Rättsch 1998

Osmorhiza occidentalis (Nutt.) Torr.

▶ *Myrrhis occidentalis* Benth. et Hook.f.

OSYRIS L. - Santalaceae

Osyris tenuifolia Engl.

Common Names ▶ African sandalwood; *German*: Afrikanisches Sandelholz
Usage ▶ flavoring
Parts Used ▶ wood
Distribution ▶ Africa, especially E Africa and Madagascar
Note ▶ Substitute for ▶ *Santalum album* L.

Hiller/Melzig 1999; Mabberly 1997; Uphof 1968

OTOSTEGIA Benth. - Lamiaceae (Labiatae)

Otostegia fruticosa Forssk.

Common Names ▶ *German*: Strauch-Otostegie
Usage ▶ spice, flavoring
Parts Used ▶ leaf
Distribution ▶ Egypt; neotropical Africa to C Asia
Note ▶ The essential oil is a substitute for thyme oil.

Aboutabl et al. 1995; Mabberly 1997

OTTELIA Pers. - Hydrocharitaceae

Ottelia alismoides (L.) Pers.

Synonyms ▶ *Ottelia condorensis* Gagn., *Ottelia japonica* Miq., *Ottelia javanaica* Miq.
Common Names ▶ water-plantain ottelia; *Dutch*: duikerbloom; *German*: Espada, Froschlöffelähnliche Ottelie; *Japanese*: mizu-ôba-ko; *Malaysian*: keladi ayer; *Pilipino*: espada; *Spanish*: tangila; *Thai*: santawah pak
Usage ▶ spice, for rice and vegetables
Parts Used ▶ leaf
Distribution ▶ Egypt, India, Sri Lanka, Thailand, China, Japan, N Australia

Cook et al. 1984; Erhardt et al. 2002; Hanelt 2001; Seidemann 1993c; Täufel et al. 1993; Wiersema/León 1999

Ottelia condorensis Gagn.

▶ *Ottelia alismoides* (L.) Pers.

Ottelia japonica Miq.

▶ *Ottelia alismoides* (L.) Pers.

 Ottelia javanica Miq.

► *Ottelia alismoides* (L.) Pers.

OXALIS L. - Sorrel - Oxalidaceae

 Oxalis acetosella L.

Common Names ► common wood sorrel, wood sorrel, shamrock, alleluia; *French*: oseille de bûcheron, oxalide petite oseille, oxadille blanche, pain de coucou, surette; *German*: Waldsauerklee; *India*: khate meethi (Kashmir); *Italian*: acetosella, alleluja; *Russian*: kisliza obyknowennaja; *Spanish*: acederilla, oxadile blanca, trébol aceto

Usage ► spice

Parts Used ► leaf

Distribution ► Europe, Turkey, W and E Siberia, Himalayas, China, Japan, Alaska, Canada, NE, N, C, E and SE USA.

Aichele/Schwegler 3, 1995; Bendel 2002; Davidson 1999; Dhar/Dhar 2000; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hiller/Melzig 1999; Koschtschew 1990; Schönfelder 2001; Schultze-Motel 1986; Schulz 1960; Seidemann 1993c; Sharma 2003; Stewart 1978; Täufel et al. 1993; Tucker 1986; Uphof 1968; Wiersema/León 1999

 Oxalis barrelieri L.

Synonyms ► *Oxalis sepium* A.St. Hil.

Common Names ► *Indonesian*: belimbing tanah

Usage ► pot-herb

Parts Used ► leaf;

Distribution ► native in tropical S America; S E Asia but it is only occasionally cultivated in Indonesia: Sumatra, Java, Malaysia, Papua and New Guinea

Note ► It was first observed in Java in 1888.

Guzman/Siemonsma 1999

 Oxalis caprina L.

Common Names ► goat's food, wood sorrel

Usage ► spice (of rice)

Parts Used ► herb

Distribution ► Madagascar, Zanzibar, Cape of Good Hope

Neuwinger 1999

 Oxalis corniculata L.

Synonyms ► *Oxalis javanica* Bl., *Oxalis lupulina* Kunth., *Oxalis repens* Thunb.

Common Names ► creeping wood sorrel, creeping oxalos, yellow sorrel; *Arabic*: hamd; *Brazil (Portuguese)*: azedinha, pé-de-pombo, três-corações, trevo; *Chinese*: cu jiang, cao, tsa chiang, hsiao suan tsai; *German*: Hornfrüchtiger Sauerklee, Hornsauerklee; *India*: ambuti, amrul, carngeri, puliyarai, puliyaral; *Italian*: carpigna; *Vietnamese*: me dat, me chua, aut

Usage ► spice

Parts Used ► leaf

Distribution ► Europe, Turkey, Levante, Caucasus region, Iran, C Asia, Himalayas, China, Japan, Amur, Sachalin, N Africa, cosmopolitical

Aichele/Schwegler 3, 1995; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hanelt 2001; Kumar 2003; Mors et al. 2000; Ogle et al. 2003; Schnelle 1999; Schultze-Motel 1986; Täufel et al. 1993; Tucker 1986; Villamar et al. 1994; Wiersema/León 1999

 Oxalis corymbosa DC.

Synonyms ► *Oxalis debilis* H.B.K., *Oxalis martiana* Zucc.

Common Names ► pink wood sorrel; *Brazil (Portuguese)*: caruru-de-sapo; *German*: Doldentraubiger Sauerklee; *Indonesian*: kembang gelas; *Japanese*: muraseaki-katrabami, yafata; *Sumatra*: asam puja; *Vietnamese*: chua me (aas) hoa (or)

Usage ► pot-herb

Parts Used ► leaf

Distribution ► native to tropical S America; in SE Asia but it is only occasionally found in Indonesia: Java, W Sumatra; Malaysia and the Philippines

Note ► It was introduced into Java from Sydney before 1848.

Guzman/Siemonsma 1999; Hanelt 2001; Kumar 2003; Mors et al. 2000; Schultze-Motel 1986

Oxalis debilis H.B.K.

➤ *Oxalis corymbosa* DC.

Oxalis intermedia A. Rich.

➤ *Oxalis latifolia* Kunth.

Oxalis javanica Bl.

➤ *Oxalis corniculata* L.

Oxalis latifolia H.B.K.

Synonyms ▶ *Oxalis intermedia* A. Rich., *Oxalis mauritiana* Lodd.

Common Names ▶ purple garden oxalis, fish-tail oxalis;
German: Breitblättriger Sauerklee; *Indonesian*: calingcing; *S Africa*: rooisuring, rooituisuring, su-ring, tuinsuring

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ C and trop S America, SE Asia it appears in Indonesia: Java

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Kottogoda 1994; Schultze-Motel 1986; Vil-lamar et al. 1994; Wiersema/León 1999

Oxalis livida Jacq.

Common Names ▶ bluish sorrel; *German*: Bläulicher Sauerklee;

Usage ▶ spice (of rice)

Parts Used ▶ herb

Distribution ▶ Madagascar, Zanzibar

Neuwinger 1999

Oxalis lupulina Kunth

➤ *Oxalis corniculata* L.

Oxalis martiana Zucc.

➤ *Oxalis corymbosa* DC.

Oxalis mauritiana Lodd.

➤ *Oxalis corymbosa* DC.

Oxalis repens Thunb.

➤ *Oxalis corniculata* L.

Oxalis sepium A.St. Hil.

➤ *Oxalis barrelieri* L.

Oxalis stricta L.

Common Names ▶ yellow sheep sorrel; *German*: Aufrechter Sauerklee

Usage ▶ pot-herb (rarely)

Parts Used ▶ fresh leaf

Distribution ▶ E Canada, USA, native in Europe and E Asia

Erhardt et al. 2002; Fleischhauer 2003

Oxalis viridis Oliv.

Common Names ▶ green sorrel; *German*: Grüner Sauerklee

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ Gabun

Dudtschenko et al. 1989



Ozymum citratum *Rumph.*

➤ *Ocimum x citriodorum* *Vis.*

P

**Padus mahaleb** (L.) Borkh.➤ *Prunus mahaleb* L.**Padus serotina** (Ehrh.) Borkh.➤ *Prunus serotina* Ehrh.**Palmaria palmata** (L.) Kuntze➤ *Rhodymenia palmata* (L.) Grev.**Panax fruticosum** L.➤ *Polyscias fruticosa* (L.) Harms**Pandanus amaryllifolius** Roxb.**Synonyms** ▶ *Pandanus hasskarlii* Merr., *Pandanus latifolius* Hassk., *Pandanus odoratus* Ridley**Common Names** ▶ fragrant pandan, fragrant screw-pine, pandan; *Cambodian*: taëy; *German*: Amarillisblättriger Schraubenbaum, Amarillisblättrige Pandanane; *Hindi*: flower: kewra, keora; *Indonesian*: pandan, pandan wangi, pandan rampe; *Malaysian*: daun pandan, pandan, pandan rampai, pandan wangi; *Pilipino*: pandan, pandan maban-go; *Thai*: toey hom, panae-wo-nging; *Vietnamese*: la dua**Usage** ▶ spice**Parts Used** ▶ young leaves**Distribution** ▶ Malaysia, cultivated Java, Molucca Islands

Arora/Pandey 1996; Davidson 1999; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hyndman 1984; Jezussek 2002; MacLeod/Pieris 1982; Oyen/Dung 1999; Salim et al. 2003; Schultze-Motel 1986; Seidemann 1993c; Zeven/de Wet 1982

**Pandanus hasskarlii** Memill➤ *Pandanus amaryllifolius* Roxb.**Pandanus latifolius** Hassk.➤ *Pandanus amaryllifolius* Roxb.**Pandanus odoratissimus** L.f.➤ *Pandanus tectorius* Parkins.**Pandanus odorifer** (Forssk.) Kuntze➤ *Pandanus tectorius* Parkins.**Pandanus odoratus** Ridley➤ *Pandanus amaryllifolius* Roxb.

Pandanus tectorius Parkinson

Synonyms ► *Pandanus odoratissimus* L.f., *Pandanus odorifer* (Forssk.) Kuntze

Common Names ► fragrant screwpine, odour screwpine, pandanus leaf; **French**: baquois, vacouet; **German**: Duft-Schraubenbaum, Duft-Pandanane; **Hindi**: kewra; **Indonesian**: pandan pantai; **Malaysian**: mengkuang laut, mengkuang duri; **Pilipino**: pandan, pibis, pandan dagat; **Portuguese**: pântano; **Spanish**: bacua; **Thai**: bai toey hom, toei hum, toei daang

Usage ► spice

Parts Used ► leaf (rarely as curry leaf), ♂ inflorescence

Distribution ► coasts of India, Sri Lanka, Myanmar, Polynesia, Australia, Macarene Island

Note ► Its flowers are the source of keora or kewra.

Cheers 1997; Davidson 1999; Deshpande 1938; Dhingra et al. 1954; Dutta et al. 1987; Engel/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Norman 1991; Schultze-Motel 1986; Seidemann 1993c, 1999, 2001d; Sharma 2003; Shiva et al. 2002; Siewek 1990; Stone 1976; Storrs 1997; Uhl 2000; Verheij/Coronel 1991; Wiersema/León 1999; Zeven/de Wet 1982



 **Pandanus tectorius**, flowering

PAPAVER L. - Poppy - Papaveraceae

Papaver somniferum L.

Common Names ► opium poppy, poppy, garden poppy, chessbolls; **Arabic**: chaschchâsch, abû ennûm, abû nû mân, khash khash, khash kash; **Chinese**: ying sou, ying tzu shu; **Dutch**: blauwmaan, papaver; **French**: pavot, pavot à opium, pavot blanc, pavot des jardins, oeilette, oeilete bleue; **German**: Mohn, Gartenmohn, Schlafmohn, Klatschrose, Mohnblume; **Hindi**: âfim, afiyun, abini, aphin, kasa kasa, kasch kasch, khus-khus, postaka; **Italian**: papavero, papavero indiano, papavero domestico, rosolaccio; **Japanese**: chishi, keshi, kshi; **Korean**: aphyonkkot, khaskhasa; **Mexico**: adormidera, amapola dei opie; **Portuguese**: papoula; **Russian**: mak, zahrodny mak, makojcka; **Sanskrit**: ahiphena, âphûka, khaskhasa; **Slovenian**: mak siaty; **Spanish**: ababa, adormidera, semilla de amapola; **Turkish**: arfuin, koknar; **Vietnamese**: a phub dung, a phien, anh tuc

Usage ► spice (frequently roasted); **product**: fatty oil

Parts Used ► seed

Distribution ► native and cultivated in Asia, Europe

Aichele/Schwegler 2, 1994; Bärtels 1997; Berger 3, 1952; Bois 1934; Bremness 2001; Broszat 1992; Cheers 1997; Chizzola/Dobos 1997; Coiciu/Racz (no year); Craze 2002; Dalby 2000; Danert 1958; Davidson 1999; Erhardt et al. 2000, 2002; Farrell 1985; Grey-Wilson 2000; Grümmmer 1976; Hager 3, 1992; Hammer 1981; Hammer/Fritsch 1977; Hanelt 2001; Heeger/Poethke 1947; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Kapoor 1995; Köhnlein 2003; Lewington 1990; Meshedani et al. 1990; Morris/Mackley 1999; NICPBP 1987; Norman 1991; Peters 1927; Pruthi 1976; Rättsch 1998; Rosengarten 1969; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Uhl 2000; Uphof 1968; Villamar et al. 1994; WHO 1990; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

Papaya communis Noronha

► *Carica papaya* L.

 Papaya vulgaris DC.

➤ *Carica papaya* L.

**PARINARIA Aubl. -
Chrysobalanceae**
 Parinaria curatellifolium Planch. ex Benth.

Synonyms ▶ *Parinaria gardineri* Hemsl., *Parinaria mabolo* Oliv.

Common Names ▶ marbo cork tree, grys apple, mobola plum; *French*: parinaire, toutou blanc

Usage ▶ spice, applied piment

Parts Used ▶ fruit

Distribution ▶ Africa: Cameroon, from Senegal to Uganda, Sudan, southward to Zimbabwe; cultivated in tropical Africa and S America

Bois 1934; Hanelt 2001; v. Koenen 1996; Wiersema/León 1999

 Parinaria gardineri Hemsl.

➤ *Parinaria curatellifolium* Planch. ex Benth.

 Parinaria mabolo Oliv.

➤ *Parinaria curatellifolium* Planch. ex Benth.

**PARKIA R.Br. -
Mimosaceae (Leguminosae)**
 Parkia africana R. Br.

➤ *Parkia biglobosa* (Jacq.) R. Br. ex G. Don

 Parkia biglobosa (Jacq.) R. Br. ex G. Don

Synonyms ▶ *Mimosa biglobosa* Jacq., *Parkia africana* R. Br., *Parkia clappertonii* Keay

Common Names ▶ (West) African locustbean, stink bean; *Dutch*: stinkboon; *French*: arbre à farine, mi-

mosa pourpre; *German*: Afrikanische Locustbohne, Dawa, Dawabaum, Nittabaum, Sudan-Kaffee; *Indonesien*: peté; *Portuguese*: farroba; *W Africa*: kpalug, nere sun, netige, niri

Usage ▶ pot-herb, especially for soups

Parts Used ▶ seed

Distribution ▶ W Africa, Gabun, W Sudan, native in W India

Aké Assi/Guinko 1991; Davidson 1999; Erhardt et al. 2002; Hagos 1962; Hager 2001; Neuwinger 1999; Oboh/Ekperigin 2004; Schultze-Motel 1986; Täufel et al. 1993; Wiersema/León 1999

 Parkia clappertonii Keay

➤ *Parkia biglobosa* (Jacq.) R.Br. ex G. Don.

 Parkia filicoidea Welw.

Common Names ▶ fernleafed nitta, West African locust bean; *German*: Farnblättriger Nitta, Westafrikanische Locustbohne

Usage ▶ flavoring for native dishes and soups

Parts Used ▶ seeds (pulverized)

Distribution ▶ tropical Africa

Uphof 1968

 Parkia macrocarpa Miq.

➤ *Parkia speciosa* Hassk.

 Parkia speciosa Hassk. ■

Synonyms ▶ *Parkia macrocarpa* Miq.

Common Names ▶ peteh; *German*: Petehbohne; *Malaysian*: nyiring, petai; *Thai*: kato, sato, pa-tao

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ Malaysia, Indonesia (Java)

Note ▶ The seeds have a garlic taste.

Erhardt et al. 2002; Hagos 1962; Hager 2001; Schultze-Motel 1986; Seidemann 1993; Seidemann/Siebert 1987; Siemonsma/Piluek



■ *Parkia speciosa*, fruits

1993; Staesche 1972; Strauß 1969; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

P

PASTINACA L. - Parsnip - Apiaceae (Umbelliferae)

🌿 *Pastinaca esculenta* Salisb.

➤ *Pastinaca sativa* L.

🌿 *Pastinaca sativa* L.

Synonyms ▶ *Anethum pastinaca* Wibel, *Pastinaca esculenta* Salisb., *Pastinaca sylvestris* Mill., *Pastinaca vulgaris* Bulbani, *Peucedanum sativum* Benth. et Hook., *Selinum pastinaca* Crantz

Common Names ▶ parsnip; *Arabic*: gazar abiad; *Chinese*: mei guo fang feng; *Dutch*: pastenaak; *French*: painais, pastenaque; *German*: Hammelmöhre, Maggipflanze, Pastinak; *Italian*: pastinaca, pastriciani,

carota rossa; *Japanese*: paasunitpu; *Korean*: hjang-muu, tanminari; *Portuguese*: pastinaca, chirivia; *Russian*: pasternak, pasternak posevnoj; *Spanish*: chirivía, pastinaca

Usage ▶ pot-herb

Parts Used ▶ leaf, root

Distribution ▶ Europe, Near East, Caucasus, Iran, E, W Siberia, native in N and S America, Australia, New Zealand

Note ▶ The wild type has a sour root.

Berger 4, 1954; Bilgri/Adam 2000; Bois 1934; Cheers 1997; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999; Körber-Grohne 1989; Kubeczka/Stahl 1975; Loch 1993; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Stahl/Kubeczka 1979; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

🌿 *Pastinaca sylvestris* Mill.

➤ *Pastinaca sativa* L.

🌿 *Pastinaca vulgaris* Bubani

➤ *Pastinaca sativa* L.

🌿 *Paullinia asiatica* L.

➤ *Toddalia asiatica* (L.) Lam.

PECTIS L. - Asteraceae (Compositae)

🌿 *Pectis papposa* Harv. et A. Gray

Common Names ▶ fetid marigold, chick weed; *German*: Stinkendes Mariegold

Usage ▶ flavoring by the Indians of New Mexico for meat

Parts Used ▶ flower

Distribution ▶ SW USA

Mabberly 1997; Uphof 1968

PEGANUM L. - Harmal, Harmel - Zygophyllaceae

Peganum harmala L.

Common Names ▶ African rue, Syrian rue, mountain rue, wild rue; *Egyptian*: besasa; *French*: harmel, péganion, rue sauvage; *German*: Harmel, Harmalbohne, Steppenraute, Syrische Raute; *India*: gorakh amlī, harmal, marmara; *Italian*: peganum; *Russian*: gar-mala, mogil'nik; *Sanskrit*: harmala; *Spanish*: al-harma, gamarza; *Turkish*: uzarih

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ N Africa, W tropical Africa, temperate Asia: India, Pakistan, Mongolia; E, SE Europe: Turkey, native elsewhere

Alberts/Muller 2000; Dastur 1954; Erhardt et al. 2002; Hager 5, 1993; Hanelt 2001; Hassan 1967; Hepper 1992; Hiller/Melzig 1999; Khubchandani/Srivastava 1989; Rätsch 1998; Seidemann 1993c; Sharma 2003; Uphof 1968; Wiegele 2000; Wiersema/León 1999; Wyk et al. 2004

PELARGONIUM L'Hérit. ex Ait. - Pelargonium, wrongly Geranium - Geraniaceae

About 100–120 fragrance *Pelargonium* sorts, varieties and hybrids used world wide.

Miller 1996; Rajeswara et al. 2001; Wiegele 2000

Pelargonium abrotanum (L.f.) Jacq.

Common Names ▶ southern (wood) geranium; *German*: Wermutgeranie

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ S Africa

Huxley et al. 1992

Pelargonium alchemilloides (L.) L'Hérit.

Common Names ▶ peach geranium; *German*: Pfirsisch-pelargonie

Usage ▶ flavoring

Parts Used ▶ leaf, herb

Huxley et al. 1992

Pelargonium asperum Willd.

▶ *Pelargonium x graveolens L'Hérit. ex Ait.*

Pelargonium capitatum auct.

▶ *Pelargonium capitatum (L.) Ait. x Pelargonium radens Moore*

Pelargonium capitatum (L.) Ait. x Pelargonium radens Moore

Synonyms ▶ *Pelargonium capitatum auct.*, *Pelargonium radens auct.*, *Pelargonium roseum auct.*

Common Names ▶ rose scented geranium, rose geranium, rose pelargonium; *Chinese*: xiang ye; *French*: geranium rosat; *German*: Rosenduftgeranie; *Italian*: geranio rosa, giraniu; *Russian*: geran roso-vaja; *Spanish*: malva rosa, geranio de olor

Usage ▶ flavoring; **product**: essential oil (rose-scented 'Geranium oil')

Parts Used ▶ leaf

Distribution ▶ S Africa

Note ▶ The species has a distinct fragrance of rose-like odor. The plant have been cultivated on the island of Réunion since 1886.

Bourton 1968; Bremness 2001; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Hanelt 2001; Roth/Kormann 1997; Schultze-Motel 1986; Shiva et al. 2002; Small 1997; Uphof 1968; Wiegele 2000; Wiersema/León 1999; Zeven/de Wet 1982

 Pelargonium x citrosum Voigt ex Sprague

Common Names ▶ citrosa geranium, mosquito plant, Robert's lemon rose; *German*: Citrosa-Geranien

Usage ▶ flavoring for tea, cakes

Parts Used ▶ leaf

Distribution ▶ only cultivated

Erhardt et al. 2002

 Pelargonium crispum (Berg.) L'Hérit. ex Ait.

Synonyms ▶ *Geranium crispum* Berg., *Geranium crispum* Kuntze

Common Names ▶ lemon geranium, curled leaved cranesbill; *German*: Orangenpelargonie, Zitronenpelargonie

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S Africa, also cultivated

Note ▶ Cultivated for its lemon-scented oil from the leaves.

Bremness 2001; Cheers 1997; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Small 1997; Wiegele 2000; Wiersema/León 1999; Zeven/de Wet 1982

 Geranium crispum Kuntze

➤ *Geranium crispum* (Berg.) L'Hérit. ex Ait.

 Pelargonium x fragrans (Poir.) Willd.

Synonyms ▶ *Geranium fragrans* Poir., *Pelargonium exstipulatum* (Cav.) L'Hér. ex Ait. x *Pelargonium odoratissimum* L'Hérit. ex Ait.

Common Names ▶ nutmeg scented geranium; *German*: Duftpelargonie, Muskatpelargonie; *Italian*: geranio odoroso

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ S Africa: Capeland, also cultivated?

Bremness 2001; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Wiegele 2000

 Pelargonium x graveolens L'Hérit. ex Ait.

Synonyms ▶ *Geranium graveolens* Thunb., *Pelargonium asperum* Willd.

Common Names ▶ Bourbon geranium, rose geranium, rose pelargonium, sweet scented geranium; *French*: bec de grue, pelargonium rosat; *German*: Rosengeranie, Zitronenpelargonie; *Indonesian*: daun ambré; *Italian*: erba cancella, geranio odoroso; *Pilipino*: malvarosa;

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S Africa, southern tropical Africa, also cultivated

Note ▶ The true species is mint scented.

Bourton 1968; Charalambous 1994; Cheers 1997; Demarne/van der Walt 1989; Demarne et al. 1993; Dudtschenko et al. 1989; Erhardt et al. 2002; Gupta et al. 2001; Hanelt 2001; Hiller/Melzig 1999; Manik/Sampath 1981; Oyen/Dung 1999; Prakasa Rao et al. 1995; Roth/Kormann 1997; Sangwan et al. 2002; Schultze-Motel 1986; Sharma 2003; Shiva et al. 2002; Small 1997; Webb 1984; Wiegele 2000; Wiersema/León 1999; Zeven/de Wet 1982

 Pelargonium x limoneum Sweet

Common Names ▶ English finger-bowl geranium

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ S Africa

Note ▶ The plant is a hybrid from lemon geranium (*Pelargonium crispum* [Berg.] L'Hérit. ex Ait.).

Small 1997

 Pelargonium odoratissimum (L.) L'Hérit. ex Ait.

Synonyms ▶ *Geranium odoratissimum* L., *Geranium odoratum* Burm.

Common Names ▶ apple scented geranium, nutmeg geranium; *French*: pelargonium citronne, geranium-rosat; *German*: Apfelduft-Pelargonie, Rosenstorchschnabel, Zitronenpelargonie; *Italian*: geranio odoroso, geranio incenso, malva d'Egitto; *Korean*: hyangkkotauk, yangauk; *Russian*: pelargonija duschistaja; *Spanish*: geranio malva; geranio de rosa, pelargonio

Usage ► flavoring; **product**: essential oil

Parts Used ► leaf

Distribution ► S Africa, cultivated: France, Spain, Brazil

Note ► The true species is apple-scented.

Bremness 2001; Cheers 1997; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Kolodziej et al. 1995; Kumar 2001; Mors/Rizzini 1966; Schultze-Motel 1986; Small 1997; Teuscher 2003; Uphof 1968; Wiegele 2000; Wiersema/León 1999; Zeven/de Wet 1982



Pelargonium papilionaceum Ait.

Common Names ► butterfly geranium; *Dutch*: vlinder pelargonium; *German*: Schmetterlings-Pelargonie

Usage ► flavoring

Parts Used ► leaf

Distribution ► S Africa

Note ► The plant has a fruity lemon-scented aroma



Pelargonium radens auct.

► *Pelargonium capitatum* (L.) Ait. x *Pelargonium radens* Moore



Pelargonium radens H.E. Moore

Synonyms ► *Geranium revolutum* Jacq.

Common Names ► mint geranium, balsam (scented) geranium; *German*: Minzpelargonie, Balsampelargonie

Usage ► flavoring; **product**: essential oil ('mawah oil' in Kenya)

Parts Used ► leaf

Distribution ► S Africa: Cape, cultivated in Kenya

Note ► The true species has a mint-scented odor.

Bremness 2001; Erhardt et al. 2002; Hanelt 2001; Kolodziej et al. 1995; Roth/Kormann 1997; Small 1997; Wiegele 2000; Zeven/de Wet 1982



Pelargonium refeniforme Curtis

Common Names ► African umckaloeba

Usage ► flavoring; **product**: essential oil

Parts Used ► leaf

Distribution ► S Africa, Capeland

Note ► The essential oil has a high cumarin content (~0,5%). The root is used as a medicinal plant.

Hanelt 2001; Kolodziej et al. 1995; Miller 1996



Pelargonium roseum auct.

► *Pelargonium capitatum* (L.) Ait. x *Pelargonium radens* Moore



Pelargonium sidoides DC.

Common Names ► African umckaloeba

Usage ► flavoring; **product**: essential oil

Parts Used ► herb

Distribution ► S Africa, Capeland

Note ► The essential oil has a high content of cumarin (~0,5%). The root is used as a medicinal plant.

Hanelt 2001; Gensthaler 2003; Kolodziej et al. 1995; Wyk et al. 2004



Pelargonium tomentosum Jacq.

Common Names ► peppermint scented geranium; *German*: Pfefferminzgeranie, Pfefferminzpelargonie

Usage ► flavoring; **product**: essential oil;

Parts Used ► leaf

Distribution ► S Africa, in W Europe, Morocco and N America cultivated

Note ► The peppermint-scented essential oil has a high mentone content.

Cheers 1997; Erhardt et al. 2002; Hanelt 2001; Kolodziej et al. 1995; Roth/Kormann 1997; Small 1997; Wiegele 2000; Wiersema/León 1999; Zeven/de Wet 1982

PENTADIPLANDRA Baill. - Pentadiplandraceae (Capparidaceae)

Pentadiplandra brazzeana Baill.

Common Names ▶ *Congo*: kikamu, kikuolo, ngama, ngu-za

Usage ▶ sauce spice

Parts Used ▶ root (powder)

Distribution ▶ tropical W Africa, Cameroon, Congo, Gabon

Mabberly 1997; Neuwinger 1999

PEPEROMIA Ruiz et Pav. – Radiator Plant - Piperaceae (Peperomiaceae)

Peperomia peepuloides A. Dietr.

▶ *Piper peepuloides* (A. Dietr.) Roxb.

Peperomia pellucida (L.) H.B.K.

Synonyms ▶ *Piper concinnum* Haw., *Piper pellucidum* L.

Common Names ▶ pepper elder, rabbit ear; *Brazil (Portuguese)*: comida-de-jaboti, maria-mole, ximbuí; *Cuban*: yerba de la plata; *German*: Durchscheinender Pfeffer; *Peru*: sacha-yuyu; *Pilipino*: olasiman ihalas, ikmong bata; *Thai*: phak krasang

Usage ▶ spice (in W Africa and Thailand)

Parts Used ▶ herb

Distribution ▶ tropical America, native in many tropical areas: W Africa, Thailand

Arora/Pandey 1996; Hanelt 2001; Mors et al. 2000; Schultze-Motel 1986; Villamar et al. 1994; Wierema/León 1999; Zeven/de Wet 1982

PERILLA L. - Perilla - Lamiaceae (Labiatae)

Perilla arguta Benth.

Common Names ▶ *Japanese*: shiso

Usage ▶ condiment

Parts Used ▶ leaf

Distribution ▶ Japan, China

Small 1997; Uphof 1968

Perilla citriodora L.

Common Names ▶ lemon egoma, lemon perilla; *German*: Zitronenperilla

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ India

Note ▶ This species is listed as *Perilla frutescens* (L.) Britton var. *citriodora*.

Facciola 1990; Hanelt 2001; Honda et al. 1990, 1994, 1996; Ito/Honda 1996; Nitta et al. 2003; Seidemann 1993c; Uphof 1968; Wealth of India 7, 1966

Perilla frutescens (L.) Britton

Synonyms ▶ *Melissa maxima* Ard., *Mentha perilloides* Lam., *Ocimum crispum* Thunb., *Ocimum frutescens* L., *Perilla nankins* Decne., *Perilla nankins* (Lour.) Spreng., *Perilla ocymoides* L.

Common Names ▶ beefsteak plant, perilla, perilla mint, purple mint, Chinese basil, Thai basil; *Chinese*: hsiang sui, su-tzu su, tzu su, zi su ye; *French*: pérille; *German*: Schwarznessel, Öl-Perilla, Thai-Basilikum; *Hindi*: bhanjira, hanshi; *Japanese*: ao-shiso, shiso (green perilla), aka shiso egoma (red perilla); *Korean*: chajogi, tülkkae; *Russian*: perilla, sudsá; *Vietnamese*: rau tia to, tai to

Usage ▶ spice; **product**: essential oil, flavoring of sweet tobacco, sauces, chewing gum and candy

Parts Used ▶ leaf, herb

Distribution ▶ Himalayas, N India to N Myanmar, China, Japan, also cultivated in Ukraine, China, Ja-

pan, Korea, Vietnam, E USA, S Russia, Iran, occasionally SE and C Europe

Note ▶ A red *Akajiso* and green *Aojiso* variegated ornamental variety is available under several names. The roasted seed with or without chillies, also the flowering tops are ground into a paste and served as chutney.

Aritomi et al. 1985; Arora/Padney 1996; Byun et al. 1985; Cheers 1997; Clebsch 1997; Dönmez 2002; Erhardt et al. 2002; Fiegert-Seibt 2001; Fjita/Nakayama 1993; Guzman/Siemonsma 1999; Hanelt 2001; Hay/Waterman 1993; Hiller/Melzig 1999; Hondo et al. 1990, 1994, 1996; Ito/Honda 1996; Kameoka/Nishikawa 1976; Kang et al. 1992; Koezuka et al. 1986; Krauß et al. 2004; Kuebal/Tucker 1988; Larkom 1991; Longvah/Doesthale 1991; Lück 2000; Makino 1914; Misra/Husain 1987; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Tucker 1986; Turova et al. 1987; Uphof 1968; WHO 1990; Wiersema/León 1999; Yuba et al. 1995; Zeven/de Wet 1982



Perilla nankins Decne.

▶ *Perilla frutescens* (L.) Britton



Perilla nankins (Lour.) Spreng.

▶ *Perilla frutescens* (L.) Britton



Perilla ocymoides L.

▶ *Perilla frutescens* (L.) Britton

PEROVSKIA Karel Perovskia - Lamiaceae (Labiatae)



Perovskia abrotanoides Karel

Common Names ▶ Caspian sage, Russian sage; *Chinese*: fen yoa kua; *French*: pérovskia; *German*: Lederschnittige Perovskie, Russischer Salbei; *Russian*: perovskija polynnaja

Usage ▶ flavoring (sporadically); **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ Himalayas, Afghanistan, Tibet, Turkmenistan; cultivated in the Crimea



■ **Perovskia abrotanoides**, flowering

Erhardt et al. 2002; Hiller/Melzig 1999; Nigam et al. 1969; Schultze-Motel 1986; Younos et al. 1972



Perovskaja atriplicifolia Benth.

Common Names ▶ Pamir sage, silver sage; *Chinese*: lin li ye, fen yoa kua; *French*: Perovskia à feuilles; *German*: Silberperovskie, Pamirsalbei

Usage ▶ flavoring (sporadically); **product**: essential oil.

Parts Used ▶ flower

Distribution ▶ Afghanistan, Pakistan, Himalayas, Tibet

Ali et al. 2001; Dabiri/Sefidkon 2001; Jassbi et al. 1999; Mucciarelli et al. 1993; Pourmortazavi et al. 2003; Rao 1926; Sefidkon et al. 1997; Younos et al. 1972



Perovskia scrophulariifolia Bunge

Common Names ▶ wrinkled perovskia; *French*: ridé pérovskia; *German*: Runzlige Perovskie

Usage ► flavoring; **product:** essential oil

Parts Used ► leaf

Distribution ► China, India, W Asia

Erhardt et al. 2002; Hanelt et al. 2001; Mucciarelli et al. 1993

PERSEA Mill. - Avocado - Lauraceae

Persea borbonia (L.) Raf.

Common Names ► red bay, sweet bay; *German:* Bourbon-Lorbeer

Usage ► condiment for soups

Parts Used ► leaf

Distribution ► S, SE USA

Uphof 1968

PERSICARIA (L.) Mill. - Smart weed - Polygonaceae

Persicaria hydropiper (L.) Opiz

Synonyms ► *Polygonum gracile* R.Br., *Polygonum hydropiper* L.

Common Names ► red cress, smartweed, water pepper; *French:* poivre d'eau; *German:* Wasserpfeffer-Knöterich, Pfefferknöterich, Pfefferkraut, Scharfer Knöterich, Vietnamesischer Koriander (very rarely); *Indonesian:* cacabea, si tuba sawah; *Japanese:* ma tade, yanagi tade; *Malaysian:* daun senahun, rumput tuboh, tube seluwang; *Pilipino:* agagat, buding, tuba; *Russian:* gorez peretschnyj, perez wodjanoj; *Thai:* pha chi mi, phak phai nam; *Vietnamese:* rau răm

Usage ► spice

Parts Used ► leaf, herb

Distribution ► Europe, N Africa: Morocco, Algeria, Turkey, Caucasus, Iran; Asia: Himalayas, China; Japan, Sri Lanka, Indochina, Malaysia; Australia; N America: Alaska, Canada

Note ► The leaves have a peppery taste.

Aichele/Schwegler 2, 1994; Berger 4, 1954; Bois 1934; Coiciu/Racz

(no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Guzman/Siemonsma 1999; hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Larkcom 1991; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Tucker 1986; Turova et al. 1987; Wiersema/León 1999; Zeven/de Wet 1982

Persicaria maculata (Rafin.) S.F. Gray

► *Polygonum persicaria* L.

Persicaria odorata (Lour.) Soják

Synonyms ► *Polygonum odoratum* Lour.

Common Names ► laksa leaf, Cambodian mint, Vietnamese coriander, knotweed; *Cambodian:* chi krassang tomhom; *French:* renouée odorante; *German:* Vietnamesischer Koriander, Wohlriechender Knöterich; *Italian:* bistorta; *Korean:* tunggulle; *Laos:* phak phè:w; *Malaysian:* daun laksa, daun kesum; *Thai:* chanchom, homchan, phak phai; *Vietnamese:* nghé, rau răm, chi krassang tomhom

Usage ► spice, pot-herb

Parts Used ► leaf

Distribution ► SE Asia, Indochina, cultivated in S Vietnam and Cambodia

Note ► The herb has a peppery taste.

Arora/Pandey 1996; Bois 1934; Cheers 1997; Davidson 1999; Erhardt et al. 2002; Guzman/Siemonsma 1999; hanelt 2001; Hutton 1998; Kuebal/Tucker 1998; Ogle et al. 2003; Schönfelder 2001; Schultze-Motel 1986; Tucker 1986; Uphof 1968; Vidal 1967; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

Persicaria pubescens (Blume) Hara

Synonyms ► *Polygonum leptostachium* de Bruyn, *Polygonum pubescens* Blume, *Polygonum roettleri* Merr. non Roth.

Common Names ► *German:* Flaumiger Knöterich; *Indonesian:* siok-siok-rangan, tuboh lalap, tuboh perpancej; *Malaysian:* kelima paya, kesuma tebok selydang

Usage ► seasoning

Parts Used ► leaf

Distribution ► SE Asia (India), Taiwan, Japan, Java, Sumatra

Guzman/Siemonsma 1999

PETASITES Mill. - Butterbur - Asteraceae (Composites)

Petasites albus (L.) Gaertn

Common Names ▶ white butterbur; *French*: pétasite blanc; *German*: Weiße Pestwurz

Usage ▶ spice (as salt when shortage)

Parts Used ▶ plant ash

Distribution ▶ Europe, Balkan countries, Turkey, Caucasus

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993; Schnelle 1999

Petasites hybridus G. Gaertn., B. Mey. et Scherb.

Synonyms ▶ *Petasites officinalis* Moench

Common Names ▶ butterbur, umbrella; *French*: pétasite vulgaire; *German*: Gemeine Pestwurz, Rote Pestwurz; *Italian*: farfaraccio; *Russian*: podbel, belokopytnik

Usage ▶ spice (as salt when shortage)

Parts Used ▶ plant ash

Distribution ▶ Europe, Turkey, Caucasus, N Iran, native in N America

Erhardt et al. 2002; Fleischmann 2003; Loch 1993; Wyk et al. 2004

Petasites japonica (Sieb. et Zucc.) Maxim.

Synonyms ▶ *Nardosmia japonica* Sieb. et Zucc., *Petasites liukiensis* Kitam

Common Names ▶ butterbur, bog rhubarb, Japanese butterbur, sweet coltsfoot; *Chinese*: feng dou cai; *Dutch*: Japans hoefblad; *French*: pétasites japonais; *German*: Japanische Pestwurz; *Italian*: farfaraccio giapponese; *Japanese*: atikabuki, fuki; *Korean*: mowi; *Portuguese*: petaside japonês; *Spanish*: fáfara japonesa

Usage ▶ condiment

Parts Used ▶ flower bud

Distribution ▶ China, Japan, Korea, Sachalin, Ryukyu Island

Erhardt et al. 2002; Hanelt 2001; Kays/Dias 1995; Uphof 1968

Petasites liukiensis Kitam

▶ *Petasites japonica* (Sieb. et Zucc.) Maxim.

Petasites officinalis Moench

▶ *Petasites hybridus* (L.) G. Gaertn., B. Mey. et Scherb.

Petasites palmata Gray.

Common Names ▶ palmata butterbur, sweet coltsfoot;

German: Süße Pestwurz

Usage ▶ spice (as salt)

Parts Used ▶ plant ash

Distribution ▶ N America

Uphof 1968

Petasites paradoxus (Retz.) Baumg.

Common Names ▶ alpes butterbur; *German*: Alpen-Pestwurz

Usage ▶ spice (as salt if shortage)

Parts Used ▶ plant ash

Distribution ▶ Europe: Spain, France, Italy, Germany, Bosnia, Serbia, Romania, mountains

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993

Petasites speciosa (Nutt.) Piper

Usage ▶ spice (as salt)

Parts Used ▶ plant ash

Distribution ▶ British Columbia to California

Uphof 1968

Petasites spurius (Retz.) Rehb.

Synonyms ▶ *Petasites tomentosus* DC.

Common Names ▶ like felt butterbur; *German*: Filzige Pestwurz

Usage ▶ spice (as salt if shortage)

Distribution ▶ Europe, W Siberia

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993



Petasites tomentosus DC.

► *Petasites spurius* (Retz.) Rehb.

PETIVERIA Bl. ex L. - Phytolaccaceae



Petiveria alliacea L.

Common Names ► erva-pipi, erva-de-guiné, erva-dálho, guiné, pipi, tipi

Usage ► pot-herb

Parts Used ► herb

Distribution ► Amazonia to Rio de Janeiro and Mato Grosso

Note ► The plant has a garlic-like odor and taste.

Adesogan 1974; Mors et al. 2000; Szczepanski et al. 1972

ful; originated probably in the Mediterranean region or W Asia, cultivated and native in Europe

Note ► Parsley is one of the most important culinary herbs. Beware: confusion with fool's parsley; *French*: petite ciguë; *German*: Hundpetersilie; *Russian*: kokorisch, sobatschja petruschka (*Aethusa cynapium* L.).

Aichele/Schwegler 3, 1995; Alberts/Muller 2000; Apeland 1971; Bärtels 1997; Berger 3, 1952; 4, 1954; Bois 1934; Broda et al. 2001; Bremness 2001; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Danert 1959; Davidson 1999; Díaz-Maroto et al. 2002a; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Farrell 1985; Feldheim 1999; Grisebach/Billuber 1967; Guzman/Siemonsma 1999; Hager 3, 1992; Hanelt 2001; Heeger 1956; Heroklots 1972; Herrmann 1997; Hoppe 1949; Kasting et al. 1972; Lopez et al. 1999; MacLeod et al. 1985; Mansfeld 1962; Manderfeld et al. 1997; Masanetz/Grosch 1998; Melchior/Kastner 1974; Newall et al. 1966; Opdyke 1975b; Paillan-Legue 1987; Petropoulos et al. 2004; Pino et al. 1997b; Pochljobkin 1974, 1977; Porker 1989; Pruthi 1976; Pschyrembel 1998; Rättsch 1998; Rosengarten 1969; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sfikas 1999; Simon/Quinn 1988; Stahl/Jork 1964; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Usher 1968; Vernon/Richard 1983; Villamar et al. 1994; Wagner/Hölzl 1968; Warncke 1994; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

PETROSELINUM Hill - Parsley - Apiaceae (Umbelliferae)



Petroselinum crispum (Mill.) Nym.

Synonyms ► *Apium crispum* Mill., *Apium petroselinum* L., *Carum petroselinum* Benth. et Hook., *Petroselinum hortense* Hoffm., *Petroselinum vulgare* J. Hill,

Common Names ► parsley; *Arabic*: bagdunis, makdunis; *Chinese*: yang yan sui; *Dutch*: peterselie; *French*: persil; *German*: Gartenpetersilie, Krause Petersilie, Peterling, Petersilling; *Hindi*: ajmood, pitar saleri; *Italian*: prezzemolo; *Japanese*: paseri; *Korean*: hyangminari, kopsilminari; *Malaysian*: pasli; *Portuguese*: salsa, salsinha; *Russian*: petruschka; *S Africa*: pieterselie; *Spanish*: perejil; *Thai*: phak chee; *Turkish*: maïdanos; *Vietnamese*: rau mui tay

Usage ► spice, flavoring; **product**: essential oil. (is used in commercial food flavoring)

Parts Used ► leaf

Distribution ► the natural range as a wild plant is doubt-



Petroselinum crispum (Mill.) Nym. var. crispum

Synonyms ► *Petroselinum sativum* Hoffm.

Common Names ► common parsley, double curled parsley, *Arabic*: madanous; *Chinese*: yang yan sui; *Dutch*: peterselieblad; *French*: persil, persil commun; *German*: Blattpetersilie, Krause Petersilie; *Italian*: prezzemolo; *Japanese*: paserii; *Malaysian*: daun pasli; *Portuguese*: salsa, salsa commum, salsinha; *Russian*: petruschka listovaja; *Spanish*: perejil

Usage ► spice, seasoning, flavoring

Parts Used ► leaf fresh, dry, dehydrated or frozen

Distribution ► only cultivated

Note ► There is much further variability, especially in leaf size, shape and dissection patterns.

Bremness 2001; Erhardt et al. 2002; Farrell 1985; Francis/Isaksen 1989; Hanelt 2001; Ihrig 1993; Jung et al. 1992; Masanetz/Grosch 1998; Melchior/Kastner 1974; Pochljobkin 1974, 1977; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Wiersema/León 1999

***Petroselinum crispum* (Mill.) Hoffm. var. *radicosum* (Alef.) Danert**

Synonyms ▶ *Apium latifolium* Mill., *Apium tuberosum* Bernh. ex Rchb.

Common Names ▶ turnip-rooted parsley, Hamburg parsley; *Arabic*: madanous leefty; *Chinese*: gen xiang qin; *Dutch*: knolpeterselie; *French*: persil à grosse racine, persil tubéreux; *German*: Wurzelpetersilie, Knollpetersilie; *Italian*: prezzemolo tuberoso; *Japanese*: ne-paserii; *Portuguese*: salsa tuberosa; *Russian*: petruschka kornevaja; *Spanish*: perejil grande, perejil hamburgo, perejil tuberoso

Usage ▶ spice, flavoring.

Parts Used ▶ taproot, leaf

Distribution ▶ only cultivated

Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Mansfeld 1962; Nitz et al. 1990; Paillan-Legue 1987; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Tucker 1986

***Petroselinum hortense* Hoffm.**

▶ *Petroselinum crispum* (Mill.) Nym.

***Petroselinum sativum* Hoffm.**

▶ *Petroselinum crispum* (Mill.) Nym. *convar. crispum*

***Petroselinum vulgare* J. Hill**

▶ *Petroselinum crispum* (Mill.) Nym.

**PEUCEDANUM L. - Hog's Fennel -
Apiaceae (Umbelliferae)*****Peucedanum graveolens* (L.) Hiern.**

▶ *Anethum graveolens* L.

***Peucedanum nagpurensis* Prain**

Usage ▶ spice, applied like coriander

Parts Used ▶ leaf

Distribution ▶ India: Bilhar, Orissa, W Bengal

Arora/Pandey 1996; Uphof 1968

***Peucedanum ostruthium* (L.) W.D.J. Koch**

Synonyms ▶ *Imperatoria ostruthium* L.

Common Names ▶ hogfennel, master wort, pellitory of Spain; *French*: impéatoire, benjoin des pays, peucedan ostrote; *German*: Meisterwurz(el), Kaiserwurz(el), Ostruz; *Italian*: imperatoria, erba rena, elafobosco erba rena; *Russian*: zarskij koren', kornewistsche zarskogo kostylja; *Spanish*: imperatoria;

Usage ▶ spice for green cheese and drinks

Parts Used ▶ rhizome

Distribution ▶ Europe: France, Iberia, C Europe, EC Europe: Crimea; N America

Aichele/Schwegler 3, 1995; Charalambous 1994; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999 Hoppe 1949; Mansfeld 1962; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Usher 1968; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

***Peucedanum sativum* Benth. Et Hook.**

▶ *Pastinaca sativa* L.

***Peucedanum sowa* (Roxb. ex Fleming) Kurz**

▶ *Anethum graveolens* L.

***Peucedanum palustre* (L.) Moench**

Synonyms ▶ *Selinum palustre* L., *Selinum sylvestre* L.

Common Names ▶ milk parsley; *German*: Sumpf-Haarstrang

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ Europe: Iberia; Asia, W Siberia

Note ▶ In some Slavic countries the roots are used as a substitute for ginger (*Zingiber officinalis* Rosc.).

Erhardt et al. 2002; Fleischhauer 2003; Schnelle 1999; Upof 1968

PEUMUS Molina - Boldo - Monimiaceae

Peumus boldus Mol.

Synonyms ▶ *Boldus boldus* (Molina) Lyons; *Peumus boldus* (Molina) Lyons, *Peumus chilensi* Schult. et Schult., *Peumus fragrans* Ruiz & Pav.

Common Names ▶ boldo (leaf); **French:** boldo, feuille de boldo; **German:** Boldoblätter; **Italian:** foglia di boldo; **Spanish:** hoja de boldo

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Chile, cultivated: Algeria

Charalambous 1994; Duke et al. 2003; Erhardt et al. 2000, 2002; Hanelt 2001; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hoppe 1949; Krug/Borkowski 1965; Mansfeld 1962; Newall et al. 1996; Ochoa/Alfonso 1996; Pschyrembel 1998; Rättsch 1992, 1998; Schultze-Motel 1986; Seidemann 1993c; Teuscher 2003; Upof 1968; Urzúa/Acuña 1983; Wolters 1994; Wyk et al. 2004

Peumus boldus (Molina) Lyons

▶ *Peumus boldus* Molina

Peumus chilensis Schult et Schult.

▶ *Peumus boldus* Molina

Peumus fragrans Ruiz & Pav.

▶ *Peumus boldus* Molina

Phaeomeria magnifica (Risc.) K. Schum.

▶ *Etlingera eliator* (Jack) R.M. Sm.

Philenoptera laxiflora (Guill. Et Perrot) G. Robert

▶ *Lonchocarpus caynescens* (Schum. et Thonn.) Benth

PHLOMIS L. - Lamiaceae (Labiatae)

Phlomis olivieri Benth

Common Names ▶ Jerusalem sage; **German:** Oliver-Brandkraut, Oliver-Strauchnessel; Jerusalem Salbei

Usage ▶ spice, flavoring; **product:** essential oil

Parts Used ▶ herb

Distribution ▶ Israel, Iran, Caucasus

Mirza/Nik 2003

Phyla scaberrima (Juss. ex Pers.) Moldente

▶ *Lippia dulcis* Trevier.

PHYLLANTHUS L. – Foliage Flower - Euphorbiaceae

Phyllanthus emblica L.

Synonyms ▶ *Cicca emblica* Kurz, *Emblica officinalis* Gaertn.,

Common Names ▶ emblic, emblic myrobalan, Indian gooseberry, Malacca tree; **Arabic:** amlag, as sanânir; **Chinese:** an mo le, yū kan tzu; **French:** myrobalan emblic; **German:** Ambla, Myrobalane; **Hindi:** amla, amlika, oanla; **Javanese:** kemloko, maloko; **Malaysian:** laka, melaka, asam melaka; **Sanskrit:** adiphala dhatri, amalaka; **Vietnamese:** kam lam, me rùng

Usage ▶ spice and for the production of vinegar

Parts Used ▶ fruit

Distribution ▶ tropical Asia, also cultivated in India, Sri Lanka, Thailand, Malaysia

Agarwal 1990; Encke et al. 2000, 2002; Hanelt 2001; Morton 1960;

Schenk/Naundorf 1966; Schultze-Motel 1986; Seidemann 1994c; Täufel et al. 1993; Uphof 1968

 Phyllanthus llanosi Müll. Arg.

➤ *Glochidion llanosi* Müll.

PHYSALIS L. Lantern plant - Solanaceae

 Physalis philadelphia Lam.

Synonyms ▶ *Physalis ixocarpa* auct.

Common Names ▶ tomatillo, ground cherry, jam cherry, husk tomatillo, purple gooseberry; *Chinese*: mao suan jiang; *French*: alkénge du Mexique, coquerct, tomate frais; *German*: Mexikanische Blasen-kirsche, Tomatl; *Mexico*: tomatillo, miltomato, tomate de cáscara, tomate verde, tulumisi; *Portuguese*: nultomato; *Spanish*: tomate de cáscara, tomate verde

Usage ▶ spice (of sauces)

Parts Used ▶ ripe fruit

Distribution ▶ Mexico, Meso-America, widely cultivated and native

Anon. 2003; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993; Villamar et al. 1994

 Physalis pubescens L.

Common Names ▶ downy ground cherry, dwarf cape gooseberry, ground cherry, strawberry tomato; *Brazil (Portuguese)*: camapu, camarú, joá-poca; *Chinese*: ku zhi; *German*: Flaumige Blasen-kirsche; *Mexico*: tomate de cáscara, guatomate, tomate silvestre, tomatillo de campo

Usage ▶ condiment, flavoring for sauces

Parts Used ▶ ripe fruit

Distribution ▶ N America: Canada, N USA; West Indies, tropical America, Mexico, Asia, native in S Russia, S Africa

Anon. 2003; Erhardt et al. 2002; Rättsch 1998; Uphof 1968

 Picraena excelsa Lindl.

➤ *Picrasma excelsa* (Sw.) Planch.

PICRASMA Bl. - Bitter wood - Simaroubaceae

 Picrasma ailanthoides (Bunge) Planch.

➤ *Picrasma quassioides* (D. Don) Benn.

 Picrasma excelsa (Sw.) Planch.

Synonyms ▶ *Picraena excelsa* Lindl.

Common Names ▶ bitterwood, Jamaica quassia, quassia wood, *French*: bois noyer, peste à poux; *German*: Jamaika-Bitterholz, Jamaika-Quassia; *Slovenian*: kvasia

Usage ▶ flavoring

Parts Used ▶ wood

Distribution ▶ Caribbean: Jamaica, Haiti, Puerto Rico, Meso-America, NS America, Venezuela

Charalambous 1994; Craze 2002; Erhardt et al. 2002; Hiller/Melzig 1999; Hoppe 1949; Uphof 1968; Wiersema/León 1999

 Picrasma quassioides (D. Don) Benn

Synonyms ▶ *Nima quassioides* Buch-Ham., *Picrasma ailanthoides* (Bunge) Planch.

Common Names ▶ bitterwood, quassia wood, *German*: Bitterholz; *India*: tithai, tithu, tutai; *Japanese*: ni-jaki,

Usage ▶ flavoring

Parts Used ▶ wood

Distribution ▶ India, N China, Korea, Japan, Taiwan

Erhardt et al. 2002; Hoppe 1949; NICBPB 1987; Uphof 1968



■ *Picrasma excelsa*, flowering

PICRIS L. - Bitter herb, Oxtungue - Asteraceae (Compositae)

P

Picris hieracioides L.

Common Names ▶ hawkweed, hawk picris; *German*: Gewöhnliches Bitterkraut

Usage ▶ pot-herb (India)

Parts Used ▶ aromatic young leaf, shoot

Distribution ▶ Europe, Turkey, E, W Siberia, Amur, Kamchatka, C Asia, Himalayas (Kashmir), China, India, Korea, Japan, native elsewhere

Arora/Padney 1996; Erhardt et al. 2002; Hager 4, 1992; Kumar 2003; Wiersema/León 1999

PILEA Lindl. – Artillery Plant - Urticaceae

Pilea melastomoides Bl.

Synonyms ▶ *Pilea trinervia* Wight; *Urtica melastomoides* Poir.

Common Names ▶ black throated artillery plant; *German*: Schwarzschlundige Kanonierblume

Usage ▶ seasoning (in India)

Parts Used ▶ young leaf, and shoot

Distribution ▶ S India, Sri Lanka, China, E Asia, W Java

Note ▶ The young leaves have an aromatic taste.

Arora/Pandey 1996; Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999

Pilea trinervia Wight.

➤ *Pilea melastomoides* Bl.

PIMENTA Lindl. - Allspice - Myrtaceae

Pimenta acris (Sw.) Kostel.

➤ *Pimenta racemosa* (Mill.) J.W. Moore

Pimenta dioica (L.) Merr.

Synonyms ▶ *Eugenia pimenta* DC., *Myrtus pimenta* L., *Pimenta officinalis* Lindl.; *Pimenta vulgaris* Lindl.

Common Names ▶ allspice, clove pepper, English spice, Jamaican pepper, pimento; *Arabic*: bahar; *Dutch*: pimenta, Jamaica peper; *French*: piment, piment des anglais, toute épice, piment de la Jamaïque, piment des Anglais, quatre-épice, également appelé, poivre gireflé, poivre de la Jamaïque; *German*: Allerleigewürz, Englischgewürz, Jamaikapfeffer, Nelkenpfeffer, Neugewürz, Piment; *India*: kabab cheene; *Italian*: pimento, pimento inglese, pepe della Giamaica, pepe garofanato; *Portuguese*: pimenta da Jamaica; *Russian*: Jamajskij perez, wos-ditschnij perez; *Slovenian*: nové

korenje; *Spanish*: malequeta, pimienta de Jamaica, pimienta inglesa

Usage ► spice; **product**: essential oil (pimento oil)

Parts Used ► fruit

Distribution ► Mexico, C America, West Indies, Grenada, Guatamala, Honduras, Cuba, Brazil, also cultivated

Berger 3, 1952; Bois 1934; Boisvert/Huber 2000; Bourton 1968; Burkill 4, 1997; Charalambous 1994; Cheers 1997; Clair 1961; Craze 2002; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Farrell 1985; Fuentes 1986; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Lück 2000; Maistr 1964; Melchior/Kastner 1974; Morris/Mackley 1999; Norman 1991; Oberdieck 1989; Pino/Rosada 1996; Pino et al. 1989a; Pochljobkin 1974, 1977; Pruthi 1976; Pursglove 1968; Rosengarten 1969; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Siewek 1990; Smith/Beck 1984; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uhl 2000; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982



Pimenta dioica (L.) Merr. var. **tabasco**

Synonyms ► *Eugenia tabasco* G. Don

Common Names ► Mexican pimento, Tabasco pimento; *French*: poivre de Chiappa; *German*: Mexico Piment, Tabasco-Piment;

Usage ► spice (locally)

Parts Used ► fruit

Distribution ► C America, SE Mexico

Melchior/Kastner 1974; Seidemann 1993; Teuscher 2003



Pimenta grandiflora St. Hil.

Common Names ► great piment; *Brazil (Portuguese)*: cerrado; *German*: Großblütiger Nelkenpfeffer; *Portuguese*: pimenta de bugre

Usage ► spice (for meat)

Parts Used ► fruit

Distribution ► tropical America: Brazil

Mors/Rizzini 1966



Pimenta officinalis Lindl.

► *Pimenta dioica* (L.) Merr.



Pimenta racemosa (Mill.) J.W. Moore

Synonyms ► *Pimenta acris* (Sw.) Kostel.

Common Names ► bayrum (tree), West Indian bay; *German*: Bayrum(baum), Kronpiment

Usage ► falsification of all or English spice (*Pimenta dioica* [L.] Merr.)

Parts Used ► fruit; **product**: essential oil

Distribution ► Indonesia; W Indies: Jamaica, Puerto Rico; Venezuela, Guayana; Africa: Cameroon

Note ► Cultivated for essential oil distilled from the leaves.

Abaul et al. 1995; Duke et al. 2003; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Schultze-Motel 1986; Seidemann 1993; Seidemann/Siebert 1987; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982



Pimenta vulgaris Lindl.

► *Pimenta dioica* (L.) Merr.

PIMPINELLA L. - Burnet Saxifrage - Apiaceae (Umbelliferae)



Pimpinella anisetum Boiss. et Balansa

Common Names ► *German*: Anis-Bibernelle

Usage ► flavoring; **product**: essential oil

Parts Used ► fruit

Distribution ► Turkey

Davis 1972; Hanelt 2001; Schultze-Motel 1986;



Pimpinella anisoides V. Brig.

Synonyms ► *Pimpinella gussonii* Presl.

Common Names ► *Italian*: anice selvatico, cinninielli

Usage ► spice, flavoring

Parts Used ► fruit

Distribution ► E Italy, Sicily

Hammer et al. 2000; Hanelt 2001

 Pimpinella anisum L.

Synonyms ▶ *Anisum vulgare* Gaertn., *Anisum officinarum* Moench, *Apium anisum* (L.) Crantz, *Carum anisum* (L.) Baill.

Common Names ▶ anise, anise seed, aniseed, common anise, sweet cumin; *Arabic*: habba helwa, yanisun; *Chinese*: huei hsiang; *French*: anis, anis vert, boucage, pimpinelle; *German*: Anis, Brotsame, Süßer Kümmel; *Indonesian*: jinten manis; *Italian*: anice verde; *Javanese*: mungfi, adismanis; *Malaysian*: jintan manis, jeramanis; *Russian*: anis, anizet, gannis; *Slovenian*: aníz; *Spanish*: anís verde; *Turkish*: anason

Usage ▶ spice; **product**: essential oil (anise oil), used in the spirit industry: “Aguardiente”, “Anisette”, “Ouzo”, “Raki”, “Kulüp”, “Altinbis”, “Yen”, French “Pastis”, etc.

Parts Used ▶ seed (fruit)

Distribution ▶ W Asia, Egypt, native in Europe

Note ▶ In Germany used with caraway, coriander and fennel and sold as “bread spice”.

Aichele/Schwegler 3, 1995; Ballarin/Ballarin 1972; Berger 3, 1952; Bilgri/Adam 2000; Bohn et al. 1989; Bois 1934; Boisvert/Huber 2000; Bournot 1968; Bremness 2001; Chandler/Hawkes 1984; Charalambous 1994; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Craze 2002; Czygan 1992; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Embong et al. 1977; Erhardt et al. 2000, 2002; Fincke 1963; Fujimatu et al. 2003; Guzman/Siemonsma 1999; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hohmann et al. 2001; Hondelmann 2002; Kämpf/Steinegger 1974; Karaali/Başoğlu 1995; Kubeczka 1985; Kubeczka et al. 1976; Melchior/Kastner 1974; Morris/Mackley 1999; Newall et al. 1996; Norman 1991; Ondarza/Sachez 1990; Peter 2001; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rodrigues et al. 2003; Rosengarten 1969; Roth/Kormann 1997; Santos et al. 1998; Schenck/Nauendorf 1966; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Turova et al. 1987; Ubillos 1989; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

 Pimpinella bulbocastanum Jessen

➤ *Bunium bulbocastanum L.*

 Pimpinella heyneana Wall. ex Kurz

Common Names ▶ Heyne burnet; *German*: Heyne-Bibernelle

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ in the hills of Deccan Island

Arora/Pandey 1996; Ochse/van den Brink 1931; Siemonsma/Piuek 1993

 Pimpinella major (L.) Huds.

Common Names ▶ greater burnet saxifrage; *French*: grand boucage; *German*: Große Bibernelle, Deutsche Theriakwurzel, Pfefferwurzel; *Italian*: pimpinella

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ Europe, Caucasus

Erhardt et al. 2002; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Loch 1993; Schönfelder 2001; Small 1997; Täufel et al. 1993; Teuscher 2003; Wyk et al. 2004

 Pimpinella saxifraga L.

Common Names ▶ common burnet saxifrage, garden burnet, burnet saxifrage; *French*: petit boucage, pimprenelle; persail de bouc; *German*: Kleine Bibernelle, Pfefferwurzel, Pimpernelle, Pimpinelle, Bockspetersilie, Deutsche or Weiße Theriakwurzel; *Italian*: pimpinella minore, tragoselino; *Russian*: bedrenekamnelomka, bodrez; *Spanish*: pimpinela blanca, saxifraga menor

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ Europe, Turkey, Caucasus, W Iran, W and E Siberia, C Asia, native in N America, New Zealand

Aichele/Schwegler 3, 1995; Bohn 1991; Bois 1934; Cheers 1997; Coiciu/Racz (no year); Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Koschtschew 1990; Kubeczka/Bohn 1985; Loch 1993; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Tucker 1986; Uphof 1968; Wiersema/León 1999; Wüstenfeld/Haensel 1964

PINUS L. - Pine - Pinaceae

Pinus maderiensis Tenore

➤ *Pinus pinea* L.

Pinus pinea L.

Synonyms ▶ *Pinus maderiensis* Tenore

Common Names ▶ pine seed, pine nut, Indian nut, pignolies, pignolia-nut, stone pine, umbrella pine; *Arabic*: snober; *Dutch*: pijnkern; *French*: pignes, pin pignon, pin parasol; *German*: Pignoli, Piniennuss, Piniensamen, Pinoli, Indiernuss, Schirmkiefer, Zirbelnuss; *Italian*: pino domestica, pino da pinola, pignolia; *Portuguese*: pinheiro manso; *Russian*: sosna pinja; *Spanish*: piñero

Usage ▶ flavoring (meat, poultry, salad, cake, pudding) and food

Parts Used ▶ seed

Distribution ▶ W Asia, Europe: France, Iberian, Italian and Balkan Peninsulas, Turkey, cultivated: elsewhere in the Mediterranean region

Bärtels 1997; Coiciu/Racz (no year); Hanelt 2001; Harrison 1992; Hepper 1992; Lück 2000; Meremdi 1957; Schenck/Naundorf 1966; Seidemann 1993; Täufel et al. 1993; Teuscher 2003; Trueb 1998a; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

seuseureuhan; *Spanish*: cordoncillo; higuillo olo-roso

Usage ▶ spice; **product**: essential oil (flavoring of beverages)

Parts Used ▶ fruit

Distribution ▶ C and S America: from Mexico to Brazil, and W Indies, in Malaysia native

Note ▶ In America a substitute for Indian long pepper. In Mexico as a spice for cocoa. It is the 'matico' or German Soldatenkraut of the European Pharmacy.

Berger 2, 1950; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Mors et al. 2000; Orjaba et al. 1989; Rättsch 1992, 1998; Schultze-Motel 1986; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982

Piper album

➤ *Piper nigrum* L.

Piper angustifolium Ruiz et Pav.

➤ *Piper aduncum* L.

Piper arborescens Miq.

➤ *Piper schmidtii* Hook

Piper aromaticum Lamk

➤ *Piper nigrum* L.

Piper auritum Kunth

PIPER L. - Pepper - Piperaceae

Piper aduncum L.

Synonyms ▶ *Artanthe adunca* (L.) Miq., *Piper angustifolium* Ruiz et Pav.; *Piper kuntzei* C. DC., *Piper multinervium* M. Martens & Galeotti

Common Names ▶ big pepper, Spanish elder, spiked pepper; *Brazil (Portuguese)*: aperta-ruão, erva de jaboti, matico-falso, pimenta-longa, pimenta-de-macaco; *German*: Matico, Matico-Pfeffer, Gebogener Pfeffer, Gekrümmter Pfeffer; *Indonesian*:

Common Names ▶ alajan pepper; *Brazil (Portuguese)*: hoja santa, makulan; *Belize*: bullhoof; *German*: Anis Pfeffer, Geröhrter Pfeffer, Mexikanischer Blatt Pfeffer, Zitronenmyrte; *Guatemala (Spanish)*: acoyo, anisilla, anisillo, cordoncillo; *Mexico*: alajan

Usage ▶ spice, flavoring

Parts Used ▶ leaf



■ **Piper auritum**, flowering

Distribution ▶ S Mexico, Caribbean, Meso-America, S America; cultivated and native: Cuba

Duke et al. 2003; Hanelt 2001; Ratsch 1998; Schultze-Motel 1986; Tüfel et al. 1993; Tucker 1986; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999

Piper baccatum Bl.

Common Names ▶ climbing pepper of Java; *Indonesian*: bodeh; *Javanese*: rinu, rinu manuk; *Pilipino*: sam-banganai

Usage ▶ spice

Parts Used ▶ fruit, leaf

Distribution ▶ Indonesia, Malaysia

Note ▶ Adulterate for the cubebs.

Burkill 1966

Piper banksii Miq.

➤ *Piper canium* Bl.

Piper borbonense (Miq.) DC.

Common Names ▶ *French*: poivre sauvage, cubebe du pays, betel marron

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Madagascar, Réunion; Seyelles comores Mascarenes

Gurib-Fakim/Brendler 2004; Hoppe 1, 1975; Neuwinger 1999

Piper caninum Bl.

Synonyms ▶ *Piper banksii* Miq., *Piper lauterbachii* DC., *Piper macrocarpum* DC.

Common Names ▶ common pepper vine; *German*: Gemeiner Pfeffer; *Indonesian*: mrican; *Malaysian*: sireh hutan, lada hantu, chambai; *Pilipino*: buyo-buyo

Usage ▶ flavoring

Parts Used ▶ fruit

Distribution ▶ Malaysia through New Guinea, to the Solomon Islands, Australia, also cultivated

Note ▶ Fruits are used as an adulterant for the cubebs and the leaves are chewed as a substitute for betel.

Guzman/Siemonsma 1999

Piper capense L.f.

Common Names ▶ Cape pepper; *German*: Kap-Pfeffer; *S Africa*: matimati

Usage ▶ condiment

Parts Used ▶ fruit

Distribution ▶ Cameroon, Nigeria, S Africa

Burkill 4, 1997; Hager 4, 1992; Neuwinger 1999



Piper chaba *Hunter*

➤ *Piper retrofractum* Vahl



Piper clusii DC.

➤ *Piper guineense* Schum. et Thonn.



Piper colubrinum Link

Common Names ▶ *Brazil (Portuguese)*: jaborandi-manso

Usage ▶ spice (locally) similar ginger rhizome (*Zingiber officinal* Rosc.)

Parts Used ▶ root

Distribution ▶ Amazonia to Rio de Janeiro

Mors et al. 2000



Piper concinnum Haw.

➤ *Peperomia pellucida* (L.) H.B.K.



Piper cubeba L.

Synonyms ▶ *Cubeba officinalis* Raff.

Common Names ▶ cubeb pepper, Java pepper, tailed pepper; *Arabic*: kabaha, kababa hindiya, kebbaba; *French*: cubebe, poivre cubèbe, poivre à queue; *German*: Javanischer Pfeffer, Kubeben, Kubebenpfeffer, Stielpfeffer, Schwanzpfeffer; *Hindi*: kabab-cini; *India*: cubab chinee; *Indonesian*: kemukus, lada berekur, chabai ekur, rinu; *Italian*: (pepe) cubebe, pepe a coda; *Korean*: philjunggadonggul; *Malaysian*: kemukus, lada berekur, chabai ekur; *Russian*: cubeba, perez cubeba; *Sanskrit*: gandarhamarica, kankola; *Slovenian*: kubéba; *Spanish*: cubeba, pimienta cubeba

Usage ▶ flavoring, condiment (liqueur, ginger bread, honey bread); **product**: essential oil

Parts Used ▶ unripe fruit

Distribution ▶ Indonesia, Malaysia; cultivated elsewhere

Berger 3, 1952; Bournot 1968; Charalambous 1994; Cheers 1997; Clair 1961; Craze 2002; Dalby 2000; Davidson 1999; Erhardt et al. 2000, 2002; Guzman/Siemonsma 1999; Hiller/Melzig 1999; Hoppe

1949; Melchior/Kastner 1974; Norman 1991; Ochse et al. 1961; Pochljobkin 1974, 1977; Prabhu/Mulchandani 1985; Rättsch 1998; Roth/Kormann 1997; Schenck/Naundorf 1966; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shiva et al. 2002; Siewek 1990; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tschirch 1892; Wiersema/León 1999; Wüstenfeld/Haensel 1964



Piper elongatum Vahl

Common Names ▶ elongato pepper; *German*: Gestreckter Pfeffer, Matiko; *Spanish*: matico, cordoncillo, yerba soldado;

Usage ▶ spice, specially in Peru as cocoa spice

Parts Used ▶ leaf

Distribution ▶ S America: Peru, Argentina, Bolivia, Brazil

Duke 1970; Hanelt 2001; Mors et al. 2000; Rättsch 1998; Täufel et al. 1993; Teuscher 2003; Uphof 1968



Piper guineense Schum. et Thonn.

Synonyms ▶ *Piper clusii* DC.

Common Names ▶ Ashanti pepper, Benin pepper, Guinea cubeb, Guinea pepper, (black) West African pepper, African cubebs; *French*: poivre d'achantis, poivre d'Afrique, poivre de Guinée, poivre de kisi; *German*: Aschantipfeffer, Guineapfeffer, Falsche Kubeben, Afrikanische Kubeben, Kissipfeffer, Kongo-Kubeben; *Russian*: afrikanskij perez, gwinejckij perez, aschantijskij perez; *Portuguese*: pimento da "rabo"; *Spanish*: pimenta de Guinea, pimenta negra del país

Usage ▶ spice, additive (flavoring)

Parts Used ▶ fruit

Distribution ▶ tropical Africa: W Africa to E Africa, cultivated in Guinea and Zaire

Aedo et al. 2001; Ayensu 1978; Berger 3, 1952; Bois 1934; Boisvert/Huber 2000; Burkill 4, 1997; Dalby 2000; Davidson 1999; Ekundayo et al. 1988b; Erhardt et al. 2002; Ferrão 1992; Griebel 1948; Hiller/Melzig 1999; Jirovetz et al. 2002; Melchior/Kastner 1974; Pochljobkin 1974, 1977; Rättsch 1998; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siewek 1990; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Usher 1968; Wiersema/León 1999; Zeven/de Wet 1982

 Piper kuntzei C. DC.

➤ *Piper aduncum* L.

 Piper lanatum Roxb.

Common Names ▶ wooly piper; *German*: Wolliger Pfeffer; *Malaysian*: akar halong, chabai hutan

Usage ▶ condiment

Parts Used ▶ fruit

Distribution ▶ Malaysia

Burkhill 1966; Oyen/Dung 1999

 Piper lauterbachii DC

➤ *Piper canium* Bl.

 Piper lolot C. DC.

Common Names ▶ lolot pepper; *French*: poivre de lolot; *German*: Lolotpfeffer; *Cambodian*: chaphlu; *Vietnamese*: cây lá lô

Usage ▶ condiment, seasoning

Parts Used ▶ leaf

Distribution ▶ Indochina: Cambodia, Laos, Vietnam

Note ▶ Recently introduced to the USA (Hawaii and Texas) by Lao and Vietnamese refugees.

Guzman/Siemonsma 1999; Hanelt 2001; Kuebal/Tucker 1988; Uphof 1968; WHO 1990; Zeven/de Wet 1982

 Piper longifolium Ruiz et Pav.

Common Names ▶ long-leaved pepper, *German*: Langblättriger Pfeffer

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ SE Asia

Oyen/Dung 1999



■ **Piper longum**, fruits

 Piper longum L. ■

Common Names ▶ Indian long pepper; *Cambodian*: morech ansai; *French*: poivre long; *German*: Langer Pfeffer, Bengal-Pfeffer, Pipalpfeffer, Stangenpfeffer; *Hindi*: pipal; *Malaysian*: babak, chabai, kadok; *Russian*: dlinnyj perez; *Sanskrit*: pippali; *Thai*: phrik-hang

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ E Himalayas, cultivated in India, Sri Lanka, Bangladesh

Arora/Pandey 1996; Atal/Ojha 1965; Berger 3, 1952; Bois 1934; Boisvert/Huber 2000; Dalby 2000; Davidson 1999; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hiller/Melzig 1999; Hoppe 1949; Melchior/Kastner 1974; Norman 1991; Pochljobkin 1974, 1977; Pruthi 1976; Schmitt 1988; Schultze-Motel 1986; Seidemann 1963, 1993; Shankaracharya et al. 1997; Sharma 2003; Shiva et al. 2002; Siewek 1990; Täufel et al. 1993; Teuscher 2003; Tewtrakul et al. 2000; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982


Piper macrocarpum C. DC.

➤ *Piper canium* Bl.


Piper mekongense C. DC.

Common Names ▶ wood wine; *German*: Mekong-Pfeffer

Usage ▶ condiment

Parts Used ▶ fruits

Distribution ▶ Indochina

Uphof 1986; Usher 1986


Piper multinervium M. Martens & Galeotti

➤ *Piper aduncum* L.


Piper nigrum L.

Synonyms ▶ *Piper aromaticum* Lamk

Common Names ▶ pepper, black and white pepper; *Arabic*: babary, filfil, fulpol aswad; *Chinese*: fou tsiao, hu chiaio; *Dutch*: zwarte and witte peper; *French*: poivre, poivre noir, poivre blanc; *German*: Pfeffer, Schwarzer Pfeffer; *Hindi*: gol mirch, kali mirch; *Indonesian*: lada, merica and merica putih; *Italian*: pepe nero, pepe bianco; *Japanese*: kosho; *Korean*: huchunamu; *Malaysian*: lada hitam, lada putih; *Pilipino*: paminta, pamintaliso; *Portuguese*: pimenta, pimenteira; *Russian*: perez tschjornyj, tschernji perez, dlinnij perez, dolgij perez; *Sanskrit*: marica; *Slovenian*: čierne korenje; *Spanish*: pimentero, pimenta negra and blanca; *Thai*: phrik thai, phrik noi and prik kao; *Turkish*: kara biber

Usage ▶ spice

Parts Used ▶ fruit, unripe fruit

Distribution ▶ Native in India (Malabar Coast); cultivated in Sri Lanka, Malakka, Thailand, Vietnam, Korea, Malaysia, Indonesia, W Africa: Sierra Leone to Congo, Madagascar, S America, especially Brazil and Jamaica

Note ▶ Brazil is the greatest exporter in the world. *Green pepper* (French: poivre vert; German: Grüner Pfeffer) is unripened pepper and *white pepper* (French: poivre blanc; German: Penan-, Muntok- or Weißer Pfeffer) is peeled black pepper. *Pink*

pepper is the fruits of ➤ *Schinus therebinthifolius* Raddi.

Ahlert/Kjer 2000; Ahlert et al. 1998; Bandyopadhyay et al. 1990; Berger 3, 1952; Bois 1934; Bournot 1968; Buckle et al. 1985; Burkill 4, 1997; Cheers 1997; Chevalier 1925; Craze 2002; Dalby 2000; Deng et al. 2003; Dobel 1886; Domrös 1973; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Ferrão 1992; Ferreira et al. 1999; Geister 1989; Govindarajan 1977; Greene 1951; Gunther et al. 1966; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Hondelmann 2002; Hoppe 1949; Jagella/Grosch 1999; Jorovetz et al. 2002; Kollmannsberger et al. 1992; Krützfeld 2001; Lewington 1990; MacCarron et al. 1995; Maistre 1964; Mathew et al. 2001; Melchior/Kastner 1974; Menon et al. 2002; Morris/Mackley 1999; Murthy et al. 1999; NICBP 1987; Norman 1991; Oberdieck 1992; Ochse et al. 1961; Orav et al. 2004; Paradkar et al. 2001; Parmar et al. 1997; Peter 2001; Pino et al. 1992; Pochljobkin 1974, 1977; Pradhan et al. 1999; Pruthi 1976; Purs-glove 1968; Ravindran 2001; Rosen-garten 1969; Roth/Kormann 1997; Sanka 1989; Schmitt 1988; Schröder 1991; Schultze-Motel 1986; Seidemann 1963, 1993c, 1998/2000; Seidemann/Siebert 1987; Sharma 2003; Siewek 1989, 1990; Skapska et al. 2002; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tewtrakul et al. 2000; Tschirch 1892; Turova et al. 1987; Variyar/Bandyopadhyay 1994; Vaupel 2002b; WHO 1990; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982


Piper officinarum (Miq.) C. DC.

➤ *Piper retrofractum* Vahl


Piper pachyphyllum Baker

Common Names ▶ mahalatsaka, voampirifery; *German*: Dickblättriger Pfeffer

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ Madagascar

Neuwinger 1999; Uphof 1968


Piper peepuloides (A.Dietr.) Roxb.

Synonyms ▶ *Chavica peepuloides* Miq., *Peperomia peepuloides* A. Dietr.

Common Names ▶ long pepper; *German*: Langer Pfeffer; *India*: savali peepul, pippul

Usage ▶ spice

Parts Used ▶ inflorescence

Distribution ▶ tropical Himalayas: Nepal to Bhutan, India (Assam), also cultivated

Berger 2, 1950; Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993; Teuscher 2003; Wealth of India 8, 1969

Piper pellucidum L.

➤ *Peperomia pellucida* (L.) H.B.K.

Piper pseudonigrum C. DC.

Common Names ▶ perennial vine; *German*: Falscher Schwarzer Pfeffer

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ Tonkin-China

Uphof 1968; Usher 1974

Piper pyriform Vatke

Common Names ▶ *French*: lingue poivre

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Madagascar, Réunion, Seychelles, Comoros, Mascarenes

Gurib-Fakim/Brendler 2004; Neuwinger 1999

Piper retrofractum Vahl

Synonyms ▶ *Chavica retrofracta* (Vahl), *Piper chaba* Hunter, *Piper officinarum* (Miq.) Vahl

Common Names ▶ long pepper, Javanese long pepper; *Dutch*: javaanse lange peper; *French*: poivre long de Java; *German*: Chabarpfeffer, Java Pfeffer, Javanischer Pfeffer; *Indonesian*: cabe jawa; *Malaysian*: chabai jawa, bakek, kedawak; *Pilipino*: litlit; *Thai*: dipli, dipli-chuak

Usage ▶ spice

Parts Used ▶ immature spike, ripe fruit

Distribution ▶ Indonesia, Philippines, Vietnam to Malaysia, cultivated only on Java, Bali and some neighbouring islands

Note ▶ It resembles *Piper longum* L. The remedy also contains dried parts of rhizome or roots.

Burkill 1966; Erhardt et al 2002; Guzman/Siemonsma 1999; Hanelt 2001; Melchior/Kastner 1974; Pursglove 1968; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tewtrakul et al. 2000; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

Piper ribesioides Wall.

Common Names ▶ *German*: Johannisbeer-ähnlicher Pfeffer; *Thai*: tha khaan lek

Usage ▶ spice

Parts Used ▶ fruit, fruit oil

Distribution ▶ Indochina, Malaysia

Berger 3, 1952; Hanelt 2001; Sánchez/Monge 1991; Seidemann 1993c; Täufel et al. 1993; Uphof 1968

Piper saigonense DC.

Common Names ▶ Saigon pepper, *German*: Saigon-Pfeffer, Vietnamesischer Pfeffer; *Vietnamese*: lolo

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Vietnam, also cultivated

Bois 1934; Guzman/Siemonsma 1999; Erhardt et al. 2002; Hanelt 2001; Oyen/Dung 1999; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982

Piper sanctum Schlecht ex Miq.

Common Names ▶ *Mexico*: acoyo, acuyo, cordonillo, xihuitl; *Spanish*: hierba sancta, hoja sancta

Usage ▶ flavoring (for soups and fish)

Parts Used ▶ herb

Distribution ▶ Mexico, Guatemala and C America, Mexico also cultivated

Note ▶ The leaves have an anise flavor.

Davidson 1999; Hanelt 2001; Ratsch 1998; Villamar et al. 1994

 Piper sarmentosum Roxb. ex Hunter

Synonyms ► *Chavica sarmentosa* (Roxb. ex Hunter) Miq.

Common Names ► wild pepper; *Cambodian*: môrech an-sai; *German*: Wildes Pfefferkraut, Thailändisches Pfefferkraut, Wurzelrankiger Pfeffer; *Indonesian*: kadok, karuk; *Javanese*: cabean; *Malaysian*: chabai, daun kaduk, kadok batu; *Pilipino*: patai-butu; *Thai*: chaa phluu, phluu ling, nom wa; *Vietnamese*: la lot

Usage ► spice, especially for soups

Parts Used ► infructescence, leaf

Distribution ► India to S China, Thailand, Vietnam and Philippines to the Moluccas

Arora/Pandey 1996; Guzman/Siemonsma 1999; Ogle et al. 2003; Rätsch 1998; Teuscher 2001; Schultze-Motel 1986

 Piper schmidtii Hook.f.

Synonyms ► *Piper arborescens* Miq.

Common Names ► Nilgiri pepper; *German*: Baumpfeffer, Nilgiri-Pfeffer, Schmidtscher Pfeffer

Usage ► spice

Parts Used ► fruit

Distribution ► India: Assam, W Ghats, Nilgiri hills; cultivated locally in the Nilgiri hills

Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c

 Piper subpeltata Willd.

Synonyms ► *Pothomorphe subpeltata* (Willd.) Miq.

Common Names ► *German*: Schildpfeffer

Usage ► flavoring for fish

Parts Used ► leaf

Distribution ► Java, Philippines

Wealth of India 8, 1968

 Piper trichostachyon (Miq.) C. DC.

Common Names ► pouched pepper; *German*: Beutelpfeffer

Usage ► spice, used like *Piper nigrum* L.

Parts Used ► fruit

Distribution ► India: Mysore, Kerala, Madras, India cultivated

Hanelt 2001; Rätsch 1998; Schultze-Motel 1986; Täufel et al. 1993; Teuscher 2003; Wealth of India 8, 1969

 Piper umbellatum L.

Synonyms ► *Lepianthes umbellatum* (L.) Raf., *Pothomorphe umbellata* (L.) Miq.

Common Names ► shrubby pepper; *Brazil (Portuguese)*: caapeba, capuba, lençol-de-santa Barbara, malvaíscio, malvavisco, pariparoba; *German*: Dolden-Pfeffer; *Jamaica*: co foot; *Mexico*: mano de zopilote; *Spanish*: cordoncillo;

Usage ► flavoring

Parts Used ► fruit, basal part of the stem (Sierra Leone)

Distribution ► Mexico, S America, native in Paeleotropics, W Africa: Sierra Leone

Ayensu 1978; Barros et al. 1996; Burkill 4, 1997; Hanelt 2001; Kyjoa et al. 1980; Mors et al. 2000; Neuwinger 1999; Rätsch 1998; Schultze-Motel 1986; Seidemann 1993c; Wiersma/León 1999

 Piper unguiculatum Ruiz et Pav.

Common Names ► Perurian pepper; *German*: Peru-Pfeffer

Usage ► spice

Parts Used ► leaf

Distribution ► S America, especially Peru

Erhardt et al. 2002

 Piper verne

► *Piper nigrum* L.

 Pirola umbellata L.

► *Chimaphila umbellata* (L.) Bartona

PISTACIA L - Pistache, Pistachio - Anacardiaceae (Pistaciaceae)

Pistacia atlantica Desf. ssp. *cabulica*

➤ *Pistacia cabulica* (Stocks) Rchf.

Pistacia cabulica (Stocks) Rchf.

Synonyms ▶ *Pistacia atlantica* Desf. ssp. *cabulica*

Common Names ▶ Bombay mastic; *Afghanistan*: khinjuk, shurumma; *German*: Bombay-Mastix

Usage ▶ spice (rarely)

Parts Used ▶ resin

Distribution ▶ India, Afghanistan

Davidson 1999; Hanelt 2001; Uphof 1968; Wealth of India 8, 1969

Pistacia khinjuk Stocks

Common Names ▶ Bombay mastic; *German*: Bombay-Mastix

Usage ▶ spice (rarely); flavoring of milk jams, sheep's cheese (*fruit*)

Parts Used ▶ resin, fruit

Distribution ▶ India; S Arabia: Yemen

Qedan 1974; Schultze-Motel 1986; Uphof 1968; Wealth of India 8, 1969

Pistacia lentiscus L.

Synonyms ▶ *Pistacia massiliensis* Mill., *Terebinthus lentiscus* Moench

Common Names ▶ Chios mastic, lentisc, mastic; *Arabic*: dharou, derw, dirw, mustik; *French*: arbre au mastic, lenstisque; *German*: Mastix, Mastix-Pistazie; *Italian*: denticchio, lentisco, corno-capra, sondrio; *Portuguese*: almecegueira, avoeira; *Russian*: fis-taschka-lentiskus; *Spanish*: lentisco

Usage ▶ spice, e.g. for liqueur: "Chio-Mastic Raki"

Parts Used ▶ resin

Distribution ▶ N Africa, Canary Islands, W Asia, SE and SW Europe, also cultivated



 ***Pistacia lentiscus*: a flowering, b resin mastic**

Anon. 1993; Avanzato 2003; Bärtels 1997; Boisvert/Huber 2000; Dalby 2000; Davidson 1999; Duke et al. 2003; Erhardt et al. 2000, 2002; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Langenheim 2003; Lemaistre 1959; Magiatis et al. 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Whitehouse 1957; Wiersema/León 1999; Zeven/de Wet 1982

Pistacia massiliensis Mill.

➤ *Pistacia lentiscus* L.



Pistacia palaestina Boiss.

➤ *Pistacia terebinthus* L.



Pistacia terebinthus L.

Synonyms ▶ *Pistacia palaestina* Boiss., *Pistacia vera* Mill.

Common Names ▶ (Cyprus) turpentine, terebinth, Turk terbinth; *Arabic*: butm sâqis; *French*: térébinthe; *German*: Mastix, Therebinth-Pistazie, Türkischer Mastix; *Italian*: corno, terebinto; *Portuguese*: alfónsico, pistacheira; *Russian*: kevoovoe, skipidaronoe derovo; *Spanish*: alfóncigo, pistachero;

Usage ▶ spice (for bread and sweets, liqueurs 'Mastica', 'Raki') and flavoring of wines

Parts Used ▶ resin

Distribution ▶ Mediterranean regions

Anon. 1993; Avanzato 2003; Bärtels 1997; Clare 1993; Couladis et al. 2003; Erhardt et al. 2000, 2002; Hager 5, 1993; Hanelt 2001; Hepper 1992; Langenheim 2003; Özcan 2004; Perikos 1993; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982



Pistacia vera L.

Common Names ▶ green almond, pistache, pistachio; *Arabic*: fustik, fustuq, pista; *Chinese*: hu chen tzu, wu ming tzu, wu ming zi; *French*: pistachier cultivé; *German*: Echte Pimpernuss, Echte Alepponuss, Pistazie, Grüne Mandel, Pistazienmandel; *Italian*: pianta di (del) pistacchio; pistacchio, mandorla di pistacchio; *Japanese*: pisutachio; *Portuguese*: alfónsico, pistacheira; *Russian*: fistaschka; *Spanish*: alfóncigo, pistachero; *Turkish*: fistik

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ E Mediterranean regions, W Asia, also cultivated in C Asia, N Iran, N Afghanistan, USA

Note ▶ About 4000 years ago first cultivated in Assyria; Trade sorts: Syrian (Aleppo), Italian pistache, Tunesian, Levantian or American pistache.

Anon. 1999; Ayfer 1967; Bärtels 1997; Bois 1934; Cheers 1997; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Gebhardt 1977a; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Kroon 1969; Küçüköner/Yurt 2003; Larue 1960; Lück 2000; Popov

1979; Reiner 1994; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Spina 1962; Täufel et al. 1993; Uphof 1968; Whitehouse 1957; Wiersema/León 1999; Zeven/de Wet 1982; Zohary 1952



Pistacia vera Mill.

➤ *Pistacia terbinthus* L.

PISTIA L. - Water Lettuce - Araceae



Pistia africana Presl.

➤ *Pistia stratiotes* L.



Pistia spathulata Michx.

➤ *Pistia stratiotes* L.



Pistia stratiotes L.

Synonyms ▶ *Pistia africana* Presl., *Pistia spathulata* Michx.

Common Names ▶ Nile cabbage, water salad, water lettuce; *Chinese*: zu fu ping, lu ping, hang ping; *French*: laitue d'eau; *German*: Wassersalat; *Japanese*: botan-uki-kusa; *Malaysian*: daraido, darahuo, kambiang, lolan; *Pilipino*: kiapo; *Spanish*: lechuga de agua

Usage ▶ condiment

Parts Used ▶ in Africa formerly grown to produce salt from the ash

Distribution ▶ pantropic

Baker van de Brink 3, 1968; Burkill 1966; Duke et Ayensu 1985; Erhardt et al. 2002; Hanelt 2001; Pursglove 1972; Schultze-Motel 1986; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

PITHECELLOBIUM Mart. - Mimosaceae

 **Pithecellobium affina** Baker ex Benth.

➤ *Pithecellobium globosum* Kosterm.

 **Pithecellobium angulatum** auct., non Benth.

➤ *Archidendron fagifolium* (Blume ex Miq.) I. Nielsen

 **Pithecellobium bigeminum** (L.) Mart.

Synonyms ▶ *Inga begemia* Willd., *Pithecellobium monadelphum* Kosterm.

Common Names ▶ *Hindi*: kachlora; *Myanmar*: labrat; *Sanskrit*: avagvadha;

Usage ▶ spice (after cooking in the case of diabetes)

Parts Used ▶ seed

Distribution ▶ India, Sri Lanka, Myanmar, Malaysia, Philippines, Java

Note ▶ The seeds have a garlic odor.

Chopra 1956; Hanelt 2001; Schultze-Motel 1986; Uphof 1968; Wealth of India 8, 1969; Zeven/de Wet 1982; Zeven/Zhukovsky 1975



■ **Pithecellobium dulce**, fresh fruits

Arora/Pandey 1996; Engel/Pummai 2000; Erhardt et al. 2002; Hanelt 2001; Husain et al. 1992; Schultze-Motel 1986; Seidemann 1993c; Storrs 1999; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

P

 **Pithecellobium dulce** (Roxb.) Benth. ■

Synonyms ▶ *Inga dulcis* Willd.; *Mimosa dulcis* L.

Common Names ▶ Manil(l)a tamarind, Madras thom, blackbead; *French*: pois sucré; *German*: Manila-Tamarinde, Mexikanischer Affenhohr; *India*: imli, hani-baul, *Indonesian*: asam belanda, asam kranji; asam londo; kamtsele; *Malaysian*: asam keranji; *Mexico*: costeno; *Pilipino*: camachile, demortis, kamatsele; *Spanish*: guanúchil, huamúchil, madre de flecha; *Thai*: ma khaam thet; *Vietnamese*: me keo

Usage ▶ flavoring (mixture added to curry powder)

Parts Used ▶ crushed seed

Distribution ▶ Mexico to tropical S America, India, Thailand, Philippines also cultivated

Note ▶ Seed coat as food (lemonade).

 **Pithecellobium fagifolium** Blume ex Miq.

➤ *Archidendron fagifolium* (Blume ex Miq.) I. Nielsen

 **Pithecellobium globosum** Kosterm.

Synonyms ▶ *Pithecellobium affina* Baker ex Benth.

Usage ▶ condiment (curries and chutneys)

Parts Used ▶ fruit

Distribution ▶ India

Hanelt 2001

 **Pithecellobium jiringa** (Jack) Prain ex King

➤ *Archidendron jiringi* (Jack) I.C. Nielsen

 Pithecellobium lobatum Benth.

➤ *Archidendron jiringa* (Jack) I. Nielsen

 Pithecellobium mindanaense Merr.

➤ *Archidendron fagifolium* (Blume ex Miq.) I. Nielse

**PLATYCODON A. DC. - Ballon Flower
- Campanulaceae**

 Platycodon grandiflorus (Jacq.) A. DC.

Common Names ▶ balloon flower, Chinese bellflower, Japanese bellflower; *Chinese*: chieh keng, jie jeng, shi yong bin li; *French*: platycodon à grandes fleurs; *German*: Großblütige Ballonblume, Balsamstrauch; *Japanese*: kikyô, *Korean*: toraji, doraji; *Vietnamese*: cấtcánh

Usage ▶ spice (rarely)

Parts Used ▶ leaf

Distribution ▶ Japan, N China, Mandschurei, Ussuri, N Korea

Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Kays/Dias 1995; Wiersema/Léon 1999; Wyk et al. 2004; Zeven/de Wet 1982

**PLECTRANTHUS L'Herit. -
Lamiaceae (Labiatae)**

 Plectranthus amboinicus (Lour.) Spreng.

Synonyms ▶ *Coleus amboinicus* Lour., *Coleus aromaticus* Benth., *Plectranthus aromaticus* Benth.

Common Names ▶ Indian borage, Indian mint, cockspar flower, country borage, soup mint, French thyme, Spain thyme, Cuban or wild oregano; *French*: oseille, plecthranthe; *German*: Jamaika-Thymian, Cuba Thymian, Indischer Boretsch, Harfenstrauch, Mottenstrauch; *Hindi*: pathorchur; *Indonesian*: daun kambing, daunkucing; *Malaysian*: daun bangun-bangun, dacon ajenton; *Pilipino*: oregano, suganda, sildu; *Russian*: schporozvetnik;



 **Plectranthus amboinicus, plant**

Spanish: orégano brujo, orégano de España, orégano Frances, sugánda; *Vietnamese*: hung chanh, rau tan la day

Usage ▶ spice, pot-herb and condiment

Parts Used ▶ fresh leaf

Distribution ▶ India, Indonesia, Malaysia, Philippines, West Indies, E tropical Africa, S Africa, widely native in the Tropics

Note ▶ In Australia popularly known as “five-in-one”; in W Indies it is called “broad-leaf-thyme”. The plant also a substitute for borage (*Borago officinalis* L.) and sage (*Salvia officinalis* L.).

Berger 2, 1950; Brieskorn/Riedel 1977; Erhardt et al. 2002; Gurdip Singh et al. 2002; Gurib-Fakim/Brendler 2004; Guzman/Siemonsma 1999; Herklots 1972; Kuebal/Tucker 1988; Mallavarapu et al. 1999; Merrill 1937; Morton 1992; Pino et al. 1990; Prudent et al. 1995; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Smith 1974; Täufel et al. 1993; Teubner 2001; Teuscher 2003; Tucker 1986; Verta et al. 1993; Wiersema/Léon 1999; Zeven/de Wet 1982

 Plectranthus aromaticus Benth.

➤ *Plectranthus amboinicus* (Lour.) Spreng.

 Plectranthus barbartus Andr.

Synonyms ▶ *Coleus barbatus* (Andr.) Benth.

Common Names ▶ *Brazil* (Portuguese): boldo, malva-santa; *German*: Bärtiger Boretsch

Usage ▶ flavoring, pot-herb (rarely)

Parts Used ▶ herb

Distribution ▶ E Africa, Madagascar, Southern Arab Peninsula, India, Sri Lanka, China

Castellón et al. 1987; Erhardt et al. 2002; Kelecom 1983; Kelecom et al. 1986; Mors et al. 2000; Uphof 1968; Wealth of India 2, 1950; Zelnik et al. 1977

 Plectranthus glandulosus Hook.f.

Synonyms ▶ *Plectranthus hylophilus* Guerke

Common Names ▶ glandy borage; *Cameroon*: avas; *German*: Drüsiger Boretsch; *Guinea*: fru-fru

Usage ▶ aromatic spice (locally)

Parts Used ▶ herb

Distribution ▶ Africa: Cameroon, Mali to Guinea, Nigeria; in E Cameroon cultivated

Burkill 3, 1995; Hanelt 2001; Schultze-Motel 1986; Westphal/Jansen 1989

 Plectranthus hylophilus Guerke

➤ *Plectranthus glandulosus* Hook.f.

PLUCHEA Cass. - Pluche - Asteraceae (Compositae)

 Pluchea foliosa DC.

➤ *Pluchea indica* Less.

 Pluchea indica Less.

Synonyms ▶ *Pluchea foliosa* DC.

Common Names ▶ Indian fleabane, Indian pluchea; *Chinese*: luan xi; *German*: Indische Pluche; *Hindi*: kukronda; *Japanese*: hiragi-giku; *Javanese*: lontas; *Malaysian*: beluntas; *Pilipino*: banig-banig, kalapini, lagunding late; *Vietnamese*: phat pha, cuc tan, tu bi

Usage ▶ pot-herb (in India); **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ India: salt marches and swamps of Sunderbans to China, S Asia, Indo-Malaysia; cultivated in Thailand, Vietnam, Indonesia

Arora/Pandey 1996; Bois 1934; Burkill 1966; Hanelt 2001; Ochse/van den Brink 1931; Uphof 1968; Wealth of India 8, 1969; Zeven/de Wet 1982

 Pluchea suaveolens (Vell.) Kuntze

Synonyms ▶ *Gnaphalium suaveolens* Vell.

Common Names ▶ *Argentina*: quitoc, lusera; *Portuguese*: caculucage, estoraque, mandecravo, quitoco, tabacarana

Usage ▶ flavoring for liqueurs

Distribution ▶ Argentina, Brazil, Paraguay, Uruguay

Hanelt 2001; Mors et al. 2000; Schultze-Motel 1986

POGA Pierre - Phytolaccaceae (Anisophyllaceae)

 Poga oleosa Pierre

Common Names ▶ African (Brazil) nut; *French*: erable d'afrique; *German*: Afrikanische (Brasil-)Nuss

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ W tropical Africa: Gabun

Note ▶ The taste resembles Brazil nut (*Bertholletia excelsa* Humb. et Bonpl.).

Jansen 1981; Neuwinger 1999; Uphof 1968

POGOSTEMON Desf. – Patchouly - Lamiaceae (Labiatae)

Pogostemon cablin (Blanco) Benth.

Synonyms ► *Pogostemon patchouli* Pellet;

Common Names ► American false pennyroyal, cablin patchouli, patchouly; *Chinese*: guang huo xiang, huo hsiang; *French*: patchouli de cablin; *German*: Indisches Patchouli; *Indonesian*: nilam wangi, singalon; *Korean*: hyangdulkkaephul, pachuri; *Malaysian*: dhalum wangi, tilam wangi; *Pilipino*: kabling, kadmum, pacholi, atluen; *Spanish*: cablan, pachuli; *Thai*: phimsen; *Vietnamese*: hoac huong

Usage ► spice for cakes and chewing-gum; **product**: essential oil (patchouli oil)

Parts Used ► leaf

Distribution ► China, Malaysia, Philippines, cultivated tropical Asia

Note ► In China where it was probably grown 2000 years ago

Akhila/Tawari 1984b; Berger 2, 1950; Bournot 1968; Charalambous 1994; Cheers 1997; Erhardt et al. 2002; Hasegawar et al. 1992; Hiller/Melzig 1999; Hoppe 1949; Kumar et al. 1986; Maeda/Miyake 1997; Nakahara et al. 1975; Oyen/Dung 1999; Raza Bhatti/Ingrouille 1997; Reglos/Guzman 1991; Robbins 1982; Roth/Kormann 1997; Schultze-Motel 1986; Sharma 2003; Shiva et al. 2002; Soepadyo/Tan 1968; Sugimura et al. 1990; Turora et al. 1987; Usher 1968; WHO 1990; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

Pogostemon heyneanus Benth.

Synonyms ► *Origanum indicum* Roth

Common Names ► Indian patchouli, Javian patchouli; *French*: patchouli; *German*: Heyne-Patchouli, Javanisches Patchouli; *Hindi*: peholi; *Indonesian*: dilem (Sumatra), dilem kembang, dhilep; *Malaysian*: boon khalif, nilam buket, pakochilam, rumput kuku; *Pilipino*: kadlum, lagumtum, malbaka; *Sri Lanka*: gan-kollan-kola

Usage ► spice for alcoholic beverages; **product**: essential oil (small quantities)

Parts Used ► leaf

Distribution ► Java; India, Indochina; Malaysia; cultivated elsewhere.

Berger 2, 1950; Cheers 1997; Maeda/Miyake 1997; Oyen/Dung

1999; Raza Bhatti/Ingrouille 1997; Schultze-Motel 1986; Soepadyo/Tan 1968; Sugimura et al. 1990; Wiersema/León 1999

Pogostemon patchouli Pellet

► *Pogostemon cablin* (Blanco) Benth.

Poinsettia pulcherrima (Willd. ex Klotzsch) R. Grah.

► *Euphorbia pulcherrima* Willd. ex Klotzsch

POLIOMINTHA Gray - Lamiaceae (Labiatae)

Poliomintha longiflora Gray

Common Names ► Mexican bush oregano; *German*: Mexikanischer Oregano

Usage ► spice (rarely); **product**: carvacrol

Parts Used ► herb

Distribution ► NE Mexico, native in the USA

Small 1997

POLYGALA L. - Milkwort - Polygalaceae

Polygala erioptera DC.

Common Names ► downy milkwort; *French*: laitier; *German*: Wollige Kreuzblume

Usage ► flavoring (tea, also in desserts in Rajasthan)

Parts Used ► leaf

Distribution ► W Indian Peninsula

Arora/Pandey 1996

POLYGONUM L. - Knotgrass - Polygonaceae

Polygonum aviculare L.

Common Names ▶ bird knotgrass, knotweed, smartweed;
Arabic: gordhab, qoddab; *Chinese*: bian xu, pien hsu, fen chieh tsao; *French*: renouée des oiseaux, trainasse; *German*: Acker-Knöterich, Vogeknöterich, Weggras, Zerrgras; *India*: dreb (Kashmir); *Italian*: centinodia; *Japanese*: michi-yanagi; *Russian*: gusjatnica, sporysch, gorlez ptitschij; *Vietnamese*: rau dang

Usage ▶ pot-herb (rarely)

Parts Used ▶ leaf

Distribution ▶ Europe, Caucasus, W, E Siberia, C Asia

Chauhan 1999; Dhar/Dhar 2000; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999; Hoffmann et al. 1992; v. Koenen 1996; NICBPB 1987; Ogle et al. 2003; Schönfelder 2001; Schultze-Motel 1986; Tull 1999; Turora et al. 1987; Villamar et al. 1994; Wyk et al. 2004

Polygonum gracile R.Br

➤ *Persicaria hydropiper L.*

Polygonum hydropiper L.

➤ *Persicaria hydropiper (L.) Delarbre*

Polygonum leptostachyum de Bruyn

➤ *Persicaria pubescens (Blume) Hara*

Polygonum odoratum Lour.

➤ *Persicaria odorata (Lour.) Soják*

Polygonum orientale L.

Synonyms ▶ *Lagunea orientale* (L.) Nak.; *Persicaria orientalis* (L.) Spach

Common Names ▶ kiss me over the garden gate, prince's

feather, smartweed, willow grass; *Chinese*: hong cao, hung tsao; *German*: Orientalischer Knöterich, Östlicher Knöterich; *Japanese*: o ke trade; *Korean*: noinjangdae, pulguntholjokkwi; *Thai*: phakuang

Usage ▶ pot-herb (by Garo and Khasia tribes in India)

Parts Used ▶ leaf

Distribution ▶ Iran, India, China, SE Asia, native in S Europe: Italy, Balkan Peninsula, Germany, USA, Brazil widely cultivated and native elsewhere

Note ▶ The shoots possess a sour taste.

Arora/Pandey 1996; Erhardt et al. 2002; Hanelt 2001; NICBPB 1987; Siemonsa/Piluek 1993; Wiersema/León 1999

Polygonum persicaria L.

Synonyms ▶ *Persicaria maculata* (Rafin.) S.F. Gray

Common Names ▶ lady's thumb, Persian knotgrass; *Chinese*: ma liao, ta liao; *French*: persicaire; *German*: Floh-Knöterich, Persischer Knöterich; *Russian*: gorez potschetschujnaja, trava potschetschujnaja

Usage ▶ pot-herb

Parts Used ▶ fresh leaf

Distribution ▶ temperate Asia, India, Malaysia, E Europe

Note ▶ Substitute for pepper when this is not otherwise available.

Berger 4, 1954; Bilgri/Adam 2000; Erhardt et al. 2002; Erichsen-Brown 1989

Polygonum pubescens Blume

➤ *Persicaria pubescens (Blume) Hara*

Polygonum roettleri Merr. non Roth.

➤ *Persicaria pubescens (Blume) Hara*

Polygonum salicifolium Brouss. ex Willd.

Common Names ▶ *German*: Weidenblättriger Knöterich

Usage ▶ spice, to manufacture salt in the Congo

Parts Used ▶ herb

Distribution ► tropical Africa e.g. Congo; tropical Asia; tropical America; Europe

Uphof 1968



Polygonum strigosum R. Br.

Common Names ► lean knotgrass; *German*: Schmächti-ger Knöterich

Usage ► spice, to manufacture salt in the Congo

Parts Used ► herb

Distribution ► tropical Africa, e.g. Congo; tropical Asia; Australia

Uphof 1968

POLYPODIUM L. Polypody - Polypodiaceae



Polypodium vulgare L.

Common Names ► common polypody, golden maiden hair, rockbrake, wall fern; *Chinese*: shui long gu; *French*: polypode vulgaire; *German*: Engelsüß, Gewöhnlicher Tüpfelfarn; *Russian*: mnogonoshka

Usage ► spice, flavoring (rarely) of bitter liqueurs

Parts Used ► leaf (frond)

Distribution ► C, S Europe, Asia, N Africa, America

Fleischhauer 2003; Hiller/Melzig 1999; Rätsch 1998; Schnelle 1999; Uphof 1968

POLYSCIAS J.R. Forst et G. Forst - Araliaceae



Polyscias cumingiana (Presl.) F.-Villar

Synonyms ► *Anthrophyllum pinnatum* (Lam.) Clarke;

Common Names ► fern-leaf aralia; *German*: Cuming-Fiederaralie; *Pilipino*: bani

Usage ► potherb

Parts Used ► leaf

Distribution ► Malaysia, also cultivated



■ **Polyscias fruticosa**

Hanelt 2001; Schultze-Motel 1986; Wiersema/León 1999



Polyscias fruticosa (L.) Harms ■

Synonyms ► *Nothopanax fruticosum* Miq.; *Panax fruticosum* L.

Common Names ► ming aralie, tea tree; *German*: Strauchige Fiederaralie; *Japanese*: Taiwan momiji; *Java-nese*: daoen grisik, tjakar kootjing; *Pilipino*: bani, makan, papua; *Sumatra*: ovang; *Vietnamese*: cay goi ca

Usage ► flavoring, spice (rarely);

Parts Used ► leaf, root

Distribution ► origin obscure; Malaysia, Polynesia; widely cultivated in tropical Asia

Note ► The leaves and roots have a prashnap taste.

Cheers 1997; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993; 1998/2000; Turova et al. 1987; Wiersema/León 1999; Zeven/de Wet 1982

 Polyscias guilfoylei (*Cogn. et Marché*) Bailey

Synonyms ▶ *Aralia guilfoylei* Cogn. et Marché

Common Names ▶ geranium-leaf aralia, Guilfoyle polyscia, wild coffee; *German*: Guilfoyl Fiederaralie; *Japanese*: araiya; *Thai*: lep khрут bai yai

Usage ▶ flavoring (in Malaysia)

Parts Used ▶ leaf

Distribution ▶ SE Asia: Malaysia, Thailand; W Africa: Sierra Leone

Burkill 1, 1985; Engel/Phummai 2000; Schultze-Motel 1986

pioppobalsamico; *Russian*: топол'ба́лсамитеский; *Spanish*: álamo balsámico, chopo balsámico

Usage ▶ spice, especially in the alcoholics industry (Boonekamp, Kartäuser, etc.)

Parts Used ▶ leaf bud

Distribution ▶ Alaska, Canada, USA, N America, Rocky mountains, cultivated in Europe

Aichele/Schwegler 3, 1995; Erhardt et al. 2000, 2002; Erichsen-Brown 1989; Hiller/Melig 1999; Hoppe 1949; Pschyrembel 1998; Schönfelder 2001; Seidemann 1993c; Sharma 2003; Uphof 1968; Wiersema/León 1999

PONCIRUS Raf. – Bitter Orange – Rutaceae

 Poncirus trifoliata (L.) Raf.

Synonyms ▶ *Citrus trifoliata* L., *Citrus trifolia* Thunb., *Limonia trichocarpa* Hance

Common Names ▶ bitter orange, citrangequat, trifoliolate orange, Japanese bitter orange; *Chinese*: chih shih, zhi shi, gou ju; *French*: orange amère, orange trifoliôle, oncir; *German*: Dreiblättrige Bitterorange; *Japanese*: karatachi; *Korean*: thaengjanamu; *Portuguese*: limoeiro trifoliado; *Spanish*: naranjo trébel

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Himalayas, C China; native in Japan, widely cultivated in temperate regions

Cheers 1997; Dugo/di Giacomo 2002; Erhardt et al. 2002; Roth/Kormann 1997; Schultze-Motel 1986; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

POPULUS L. – Poplar – Salicaceae

 Populus balsamifera L.

Common Names ▶ balsam poplar, hackmatack, tacamahaca poplar; *Chinese*: hai tung, tzu tung; *French*: peuplier baumier; *German*: Balsampappel; *Italian*:

 Populus nigra L.

Common Names ▶ black poplar, Lombardy poplar; *Ara-bic*: asafsaf, safsaf; *French*: peuplier noir, peuplier franc; *German*: Schwarz-Pappel, Pyramiden-Pappel; *Italian*: pioppo nero; *Russian*: топол' тшjornyj, osokor'; *Spanish*: alamo negro, chopo común;

Usage ▶ spice, especially in the alcoholics industry (Boonekamp, Kartäuser, etc.)

Parts Used ▶ leaf bud

Distribution ▶ Europe, Turkey, Caucasus, W, E Siberia, NW Africa, also widely cultivated

Aichele/Schwegler 3, 1995; Berger 1, 1949; Charalambous 1994; Cheers 1997; Coiciu/Racz (no year); Erhardt et al. 2002; Greenaway et al. 1990, 1992; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Jerković/Mastelić 2003; Pschyrembel 1998; Roth/Kormann 1997; Schönfelder 2001; Seidemann 1993c; Uphof 1968; Wiersema/León 1999; Wüstenfeld/Haensel 1964

POROPHYLLUM Adans. – Asteraceae (Compositae)

 Porophyllum ellipticum Cass.

▶ *Porophyllum ruderale* (Jacq.) Cass.

 Porophyllum macrophyllum DC.

▶ *Porophyllum ruderale* (Jacq.) Cass.

 Porophyllum ruderale (Jacq.) Cass.

Synonyms ► *Cacalia porophyllum* L., *Porophyllum ellipticum* Cass., *Porophyllum macro-phyllum* DC.

Common Names ► *Bolivia* (Spanish): quillquina, killi

Usage ► pot-herb

Parts Used ► fresh leaves

Distribution ► tropical C and S America: Bolivian, W Indies

Note ► Tastes like coriander leaves.

Hanelt 2001; Mikus/Schaser 1995; Mikus et al. 1997

 Porophyllum ruderale (Jacq.) Cass. **ssp. macrocephalum**

Common Names ► *Spanish* (Mexico): papalo, papalo-quelite

Usage ► pot-herb

Parts Used ► fresh leaf

Distribution ► Mexico, USA: Texas

Villamar et al. 1994

 Porophyllum tagetoides (Kunth) DC.

Synonyms ► *Kleinia tagetoides* H.B.K.

Usage ► pot-herb

Parts Used ► fresh leaves or herb

Distribution ► Mexico, also cultivated

Burkill 1, 1985; Hanelt 2001

 Porrum ampeloprasum (L.) Mill.

► *Allium ampeloprasum* L. **ssp. ampeloprasum**

 Porrum commune Rchb.

► *Allium porrum* L.

 Porrum sativum Mill.

► *Allium porrum* L.

 Porrum sativum (L.) Rchb.

► *Allium sativum* L.

 Porrum scorodoprasum (L.) Rchb.

► *Allium scorodoprasum* L.

PORTULACA L. - Purslane - Portulacaceae
 Portulaca imbrica Forssk.

► *Portulacca quadrifida* L.

 Portulaca officinarum Crantz

► *Portilaca oleracea* L.

 Portulaca oleracea L.

Synonyms ► *Portulaca officinarum* Crantz, *Portulaca sylvestris* Montandon

Common Names ► kitchen garden purslane, pourslane, purslain, pursley; *Arabic*: bighel, blibcha, farfena, idsla, rigla; *Chinese*: ma chi xian, shih-yung-mach'in-hsien; *Dutch*: postelein; *French*: pourpier, pourpier des potagers; *German*: Burgel, Bürzelkraut, Portulak; *Hindi*: kulfa, kulfa sag; ghol, *Indonesian*: krekot; *Italian*: portulaca, porcellana, portschellana, erba grassa; *Japanese*: suberi hiyu; *Korean*: soebirūm, toejiphul; *Malaysian*: gelang pasier, segan jantan; *Pilipino*: golasiman, lungum, ngalug, sahihan, ulisiman; *Portuguese*: beldroega; *Russian*: donduri, portulak, portulak ovoschnoj; *Spanish*: verdolaga (común); *Vietnamese*: rau sam

Usage ► pot-herb

Parts Used ► leaf

Distribution ► origin unknown; distributed worldwide, also cultivated

Aichele/Schwegler 2, 1994; Arora/Pandey 1996; Bendel 2002; Berger 4, 1954; Bharuchta/Josh 1957; Bremness 2001; Byrne/McAndrews 1975; Cheers 1997; Clair 19961; Dhar/Dhar 2000; Davidson 1999; Dudtschenko et al. 1989; Erichsen-Brown 1989; Feng et al. 1961; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Jirovetz et al. 1993; Kiyoko/Cavers 1980; Koch 1988; v. Koenen 1996; Koschtschew 1990; Körber-Grohne 1989; Kumar 2003; Lewington 1990; Liu et al. 2000; Lo ch 1993; Mc-Navy Wood 2003; Mors et al. 2000; NICPBP 1987; Ogle et al. 2003; Ross 1999; Sala/Chemli 2004; Schenck/Naundorf 1966; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993; Sharma 2003; Siemonesma/Piluek 1993; Täufel et al. 1993; Turova et al. 1987; Uotila 1977; Uphof 1968; Villamar et a. 1994; WHO 1990; Wiersema/León 1999; Yammanura 1997; Zeven/de Wet 1982



Portulaca quadrifida L.

Synonyms ► *Portulacca imbrica* Forssk.

Common Names ► single-flowered purslane, wild purslane; *German*: Vierspaltiges Burzelkraut; *India*: luni, khati luni-ni-bhaji

Usage ► pot-herb (in India)

Parts Used ► plant

Distribution ► India, pantropical, but not in Australia and the Pacific E of Samoa; cultivated in western tropical Africa

Arora/Pandey 1996; Hanelt 2001; v. Koenen 1996; Ochse/van de Brink 1931; Schultze-Motel 1986; Uphof 1968



■ **Potentilla erecta, flowering**

Tormentilla, Wilder Gamander; *Italian*: tormentilla; *Russian*: kalgan laptchatka prjamaja; *Spanish*: tormentilla, siete en rama, consuelda roja

Usage ► flavoring for spirits and liqueurs

Parts Used ► rhizom

Distribution ► Europe, Turkey, Caucasus, W Siberia

Note ► Substitute for *Krameria lappacea* (Domb.) Burdet et B.B.

Ahn 1973; Aichele/Schwegler 2, 1994; Berger 4, 1954; Coiciu/Racz (no year); Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Länger et al. 1993; Lund/Rimpler 1985; Pschyrembel 1998; Schönfelder 2001; Seidemann 1993; Stachurski et al. 1995; Staesche 1968; Täufel et al. 1993; Turova et al. 1987; Uphof 1968; Wiersema/León 1999 Wüstenfeld/Haensel 1964; Wyk et al. 2004



Portulaca sylvestris Montandon

► *Portilaca oleracea* L.

POTENTILLA L. - Cinquefoil, Five Finger - Rosaceae



Potentilla erecta (L.) Raeusch. ■

Synonyms ► *Potentilla sylvestris* Neck., *Potentilla tormentilla* Stokes, *Tormentilla erecta* L.

Common Names ► bloodroot, Shepherd's knot, tormentill(a); *French*: tormentille commune; *German*: Blutwurz, Aufrechtes Fingerkraut, Ruhrkraut,



Potentilla sylvestris Neck.

► *Potentilla erecta* (L.) Raeusch.

**Potentilla tormentilla** Stokes

➤ *Potentilla erecta* (L.) Raeusch

**Poterium officinale** (L.) A. Gray

➤ *Sanguisorba officinalis* L.

**Poterium sanguisorba** L.

➤ *Sanguisorba minor* Scop.

**Pothomorphe umbellata** (L.) Miq.

➤ *Piper umbellatum* L.

**Poupartia dulcis** Bl.

➤ *Spondias acida* Bl.

**Poupartia pinnata** Blanco

➤ *Spondias malayana* Kosterm.

PRIMULA L. – Primrose - Primulaceae

**Primula officinalis** (L.) Hill

➤ *Primula veris* L.

**Primula veris** L.

Synonyms ▶ *Primula officinalis* (L.) Hill

Common Names ▶ primrose, cowslip; *French*: primerolle, primevère officinale; *German*: Echte Schlüsselblume, Himmelschlüssel, Wiesen-Schlüsselblume; *Italian*: prima vera, primula; *Russian*: pervozvet, primula; *Spanish*: primula

Usage ▶ spice for cakes, milk soups and salads

Parts Used ▶ flower

Distribution ▶ Europe: N Spain, S France, C Europe, native Europe to SE Russia, Crimea, Caucasus, W, E Siberia

Note ▶ The plant as a spice is so far only found locally.

Aichele/Schwegler 3, 1995; Berger 1, 1949; Bilgri/Asam 2000; Bremness 2001; Cheers 1997; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Grecu/Cucu 1975; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Kartnig/Ri 1973; Köhlein 1984; Mazza/Oohmah 2000; Mestenhauser 1961; Newall et al. 1996; Pschyrembel 1998; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004

PROSTANTHERA Labill. - Australian Mint Bush - Lamiaceae (Labiatae)

**Prostanthera rotundifolia** R.Br.

Common Names ▶ Australian mint bush, round-leaved mint bush; *French*: menthe d'Australie, prostanthere; *German*: Australische Minze, Australischer Minzstrauch

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Australia: NS Wales, Victoria, S Australia, Tasmania

Cheers 1997; Erhardt et al. 2002

PRUNUS L. - Cherry, Plum - Rosaceae

**Prunus dasycarpa** Ehrh.

➤ *Armeniaca dasycarpa* (Ehrh.) Borkh.

**Prunus laurocerasus** L.

Synonyms ▶ *Cerasus laurocerasus* (L.) Loisel, *Laurocerasus officinalis* M. Roem.

Common Names ▶ cherry laurel, laurel, *Arabic*: gurkarasi; *French*: laurier-amande, laurier-cerise; *German*: Kirschlorbeer, Lorbeerkirsche; *Italian*: lauroceraso, lauro regio; *Portuguese*: loureiro

cerejeira; *Russian*: lavrovishnaja lekarstvennaja, lavrovishnaja apteschnaja; *Spanish*: laurel cerezo, laurel real; *Turkish*: taflan

Usage ▶ spice, condiment

Parts Used ▶ fresh leaf

Distribution ▶ SE Europe: Yugoslavia, Greece, Bulgaria, Asia minor, Caucasus, N Iran; native in C Europe, native elsewhere

Note ▶ Fruits in India for perfumes and as a condiment for liqueurs (limited).

Ayaz 1997; Ayaz et al. 1995, 1997; Bärtels 1997; Berger 2, 1950; Bois 1934; Brondegaard 1991; Charalambous 1994; Cheers 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Heeger 1956; Hoppe 1949; Hiller/Melzig 1999; Kadioglu/Yavru 1998; Kolayli et al. 2003; Schönfelder 2001; Seidemann 1993c; Small 1997; Tucker 1986; Uphof 1968; Wiersma/León 1999

Prunus mahaleb L.

Synonyms ▶ *Cereasus mahaleb* (L.) Mill., *Padus mahaleb* (L.) Borkh.

Common Names ▶ mahaleb cherry, perfumed cherry, St. Lucie cherry; *French*: cerisier de mahaleb, cerisier de Sainte Lucie, mahlebi, quénit; *German*: Felsenkirsche, Steinweichsel, Türkische Weichsel, Weichselrohr; *Italian*: ciliegio canino, malebo, ciliegiodi S. Lucia; *Russian*: tscheremycha-antipka, kutschina, magalepka; *Spanish*: cerezo de mahoma, cerezo de Santa Lucia; *Turkish*: mahlep, melhem, yabani kiraz

Usage ▶ spice

Parts Used ▶ leaf, seed

Distribution ▶ S Europe, Asia minor, Caucasus (Armenian), Syria; native in C Europe

Aichele/Schwegler 2, 1994; Bärtels 1997; Boisvert/Huber 2000; Brockman 1979; Charalambous 1994; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Morris/Mackley 1999; Seidemann 1995c; Tucker 1986; Uphof 1968; Wiersma/León 1999; Zeven/de Wet 1982

Prunus nigra Desf.

▶ *Armeniaca dasycarpa* (Ehrh.) Borkh.

Prunus serotina Ehrh.

Synonyms ▶ *Padus serotina* (Ehrh.) Borkh., *Prunus virginiana* L

Common Names ▶ American bird cherry, black cherry, rum cherry; *French*: cerisier tardif, cerisier d'automne; *German*: Späte Traubenkirsche, Traubenkirsche, Wildkirsche; *Italian*: ciliegio tardivo; *Russian*: ceremucha pozdnjajo

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ Canada, N America: Ontario to N Dakota, Texas, Florida, Mexico, Guatemala, native in Europe

Note ▶ About 300 years ago introduction into Europe.

Aichele/Schwegler 2, 1994; Berger 1, 1949; Charalambous 1994; Cheers 1997; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hiller/Melzig 1999; Ochoa/Alonso 1996; Rättsch 1998; Schnelle 1999; Schönfelder 2001; Seidemann 1993c; Uphof 1968; Villamar et al. 1994; Wiersma/León 1999; Zeven/de Wet 1982

Prunus virginiana L.

▶ *Prunus serotina* Ehrh.

Ptarmica atrata (L.) DC.

▶ *Achillea atrata* L.

Ptarmica clavenae DC.

▶ *Achillae clavenae* L.

PTERIDIUM Gled. ex Scop. - Bracke, Braken fern - Dennstaedtiaceae (Polypodiaceae, Pteridaceae)

Pteridium aquilinum (L.) Kuhn

Synonyms ▶ *Pteridium esculentum* (Forst.) Nakei, *Pteris aquilina* L.; *Pteris esculenta* Forst.

Common Names ▶ bracken fern, bracken, eagle fern, pasture brake; *French*: fougère aigle; *German*:

Adlerfarn; *Indonesian*: anam dangdeur, paku geulis; *Japanese*: warabi; *Javanese*: pakis gemblung; *Malaysian*: pakis gila; *Pilipino*: anamam sigpang; *Thai*: kut kia, kut kin

Usage ▶ condiment

Parts Used ▶ plant (herb)

Distribution ▶ Worldwide in all temperate and tropical regions. It is one of the most widely distributed vascular plants

Note ▶ This plant ash (salt) is higher in potassium content than common salt.

Bournot 1968; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Hiller/Melzig 1999; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Uphof 1968



Pteridium esculentum (Forst.) Nakei

▶ *Pteridium aquilinum* (L.) Kuhn



Pteris aquilina L.

▶ *Pteridium aquilinum* (L.) Kuhn



Pteris esculenta Forst.

▶ *Pteridium aquilinum* (L.) Kuhn

PTEROCARPUS Jacq. - Rosewood - Fabaceae (Leguminosae)



Pterocarpus indicus Willd.

▶ *Pterocarpus santalinus* L.



Pterocarpus santalinus L.f.

Synonyms ▶ *Pterocarpus indicus* Will.

Common Names ▶ red sandalwood, 'Red sanders', Anaman redwood, Burmese rosewood, Indian sandalwood; *Chinese*: tzu tan; *French*: bois de santal; *German*: Katliaturholz; Rote Flügelfrucht, Rotes Sandelholz; *Hindi*: lal chandan, rakhta chandan;

Indonesian: angšana; *Javanese*: almug; *Malaysian*: angšana, sena; *Pilipino*: narra; *Russian*: krasnyi sandalovoe; *Sanskrit*: rakhta chandana; *Thai*: pradu laai

Usage ▶ spice, dye stuff

Parts Used ▶ wood

Distribution ▶ S India, Sri Lanka to the Philippines

Note ▶ Called the national tree of the Philippines.

Berger 3, 1952; Dalby 2000; Dastur 1954; Engel/Phummai 2000; Erhardt et al. 2002; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Hoppe 1949; Pschyrembel 1998; Rättsch 1998; Schultze-Motel 1986; Shankaranarayana/Kamala 1986; Seidemann 1993; Seidemann/Siebert 1987; Storrs 1997; Täufel et al. 1993; Tschirch 1892; Uphof 1968; Wiersma/León 1999; Wüstenfeld/Haensel 1964

PUNICA L. - Pomegrate - Punicaceae



Punica granatum L.

Synonyms ▶ *Granatum punicum* St. Lag., *Punica spinosa* Lam.

Common Names ▶ pomegranate, anardana; *Arabic*: rommon, ruman, rommen; *Chinese*: shan shih lu, shi liu pi; *Dutch*: granaatappel; *French*: grenadier; *German*: Granatapfel, Punischer Apfel; *Hindi*: anar; *Indonesian*: delima; *Italian*: granado, man-grano, melograno; *Japanese*: zakuro; *Korean*: sokryunamu; *Malaysian*: delima; *Pilipino*: dalima granada; *Portuguese*: romã, romazeiro, *Russian*: granat; *Sanskrit*: dadima; *Spanish*: granada, man-grana; *Thai*: thap thim; *Vietnamese*: an thach, lu'u, mac liu

Usage ▶ spice (pulpa), condiment

Parts Used ▶ pulpa with seeds

Distribution ▶ SW, SE, C Asia, native Mediterranean region, Europe: S France, Switzerland

Note ▶ Used as a condiment in the acidification of chutneys and certain curries. The only related species is *Punica protopunica* Ralf., found wild on Socotra in the Indian Ocean.

Al-Maiman/Ahmad 2002; Arora/Pandey 1996; Avigad 1990; Bärtels 1007; Ben-Arie et al. 1984; Bendel 2002; Bose 1985; Cemeroglu et al. 1992; Charalambous 1994; Cheers 1997; Dastur 1954; Davidson 1999; Du et al. 1975; Dudtschenko et al. 1989; El-Nemr et al. 1992; Engel/Phummai 2000; Ewaida 1987; Farrell 1985; Hanelt 2001; Heeger 1956; Hepper 1992; Hernández et al. 1979; Hiller/Melzig

1999; Hodgson 1917; Hoppe 1949; Melgarejo et al. 2000; Morris/Mackley 1999; NICPBP 1987; Noda et al. 2002; Norman 1991; Ochse et al. 1961; Pruthi 1976; Saxena et al. 1987; Schenck/Naundorf 1966; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993; Sfikas 1994; Sharma 2003; Silva 1983; Storrs 1997; Täufel et al. 1993; Uphof 1968; Verheij/Coronel 1991; Villamar et al. 1994; WHO 1990; Wiersma/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

Punica protopunica Ralf.

➤ *Punica granatum* L.

Punica spinosa Lam.

➤ *Punica granatum* L.

PYCNANTHEMUM Michx. - Lamiaceae (Labiatae)

Pycnanthemum pilosum Nutt.

Common Names ▶ hairy mountain mint; *German*: Amerikanische Bergminze, Weichhaarige Bergminze

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ C, E America

Note ▶ The plant has an austere mint aroma.

Mabberley 1997

Pycnanthemum virginianum (L.) T. Durand et B.D. Jacks ex B.L. Rob. et Fernald

Common Names ▶ Virginia mountain mint, Virginia thyme, wild basil; *French*: Virginia pycnanthème; *German*: Virginianische Bergminze; *Russian*: Virginia piknanthemum

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ N America

Small 1997; Tucker 1986; Uphof 1968; Wiersma/León 1999

PYCNANTHUS Warb. - Myristicaceae

Pycnanthus angolensis (Welw.) Warb.

Synonyms ▶ *Pycnanthus kombo* (Baill.) Warb.

Common Names ▶ African nutmeg, Angolian nutmeg, false nutmeg; *Cameroon*: bakondo, ilimba, kiang, nasamba, tengé, tombe; *French*: arbre à suif, faux muscadier; *German*: Angolanische Muskat, Ilombanuss

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ S, W, and W, C tropical Africa, especially Angola

Ayensu 1978; Burkill 4, 1997; Neuwinger 1999; Warburg 1897; Wiersma/León 1999

Pycnanthus kombo (Baill.) Warb.

➤ *Pycnanthus angolensis* (Welw.) Warb.

Pyrethrum majus (Desf.) Tzevel

➤ *Tanacetum balsamite* L.

Pyrus alnifolia Lindl.

➤ *Amelanchier alnifolia* (Nutt.) Nutt.

Q

QUARARIBEA Aubl. - Bombacaceae

Quararibea fieldii Mills.

Common Names ▶ *Mexico*: saha

Usage ▶ flavoring of chocolate

Parts Used ▶ flower

Distribution ▶ Yucatán (Mexico)

Uphof 1968

Quararibea funebris (La Llave) Vischer

Synonyms ▶ *Lexarza funebris* La Llave, *Myrodia funebris* (La Llave) Benth.

Common Names ▶ *German*: Kakaoblütenbaum-Blüten,
Spanish: flor de cacao, rosita de cacao, madre de cacao

Usage ▶ spice, flavoring of “pozonque” and “tejate”

Parts Used ▶ flower

Distribution ▶ C Mexico to NW Costa Rica

Alverson 1988; Guzman/Siemonsma 1999; Hanelt 2001; Raffauf/Zennie 1983; Rättsch 1998; Rosengarten 1969, 1977; Schultes 1957; Schultze-Motel 1986; Täufel et al. 1993

Quararibea turbinata (Sw.) Poir.

Common Names ▶ swizzlestick tree

Usage ▶ flavoring for chocolate beverages and tamale sauce (by the natives of the Dominican Republic)

Parts Used ▶ wood sticks

Distribution ▶ W Indies, tropical S America

Uphof 1968

QUASSIA L. - Bitterwood - Simaroubaceae

Quassia amara L.

Synonyms ▶ *Picrasma excelsa* (Sw.) Planch.

Common Names ▶ bitterwood, Jamaica wood, quassia wood, Surinam quassia; *Brazil (Portuguese)*: amargo negro, chiriguaná, chuña-chuña, lucuma, marupá; *French*: bois amer, quassia de Surinam, quassier, quassier amer, quinine de Cayenne; *German*: Bitteresche, Bitterholz, Quassiahholz, Surinambitterholz; *Italian*: quassia; *Pilipino*: corales, kuasia; *Portuguese*: quassia; *Russian*: kvasija gor'kaja; *Slovenian*: kvasia; *Spanish*: crucete, cuasia amargo, guabito amargo, quassia; *Thai*: prathatchin

Usage ▶ spice (flavoring)

Parts Used ▶ wood

Distribution ▶ Mexico, West Indies, Guayana, N Brazil; cultivated elsewhere

Note ▶ Leaves in England earlier as a hop substitute.

Barbetti et al. 1987; Berger 1, 1949; Charalambous 1994; Cranze 2002; Engel/Phummai 2000; Erhardt et al. 2002; Hager 1, 1990; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Kottegoda 1994;



■ **Quassia amara, flowering**



Quassia excelsa Sw.

Common Names ▶ Jamaica wood

Usage ▶ flavoring

Parts Used ▶ wood

Distribution ▶ W Indies, especially Jamaica

Note ▶ The bitter wood also used for the preparation of a certain aperatif.

Uphof 1968

Mors et al. 2000; Nestler 1979; Newall et al. 1996; Njar et al. 1993; Plotkin 1994; Pschyrembel 1998; Rättsch 1992; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Uphof 1968; Villamar et al. 1994; Wagner/Nestler 1978; Wiersema/León 1999; Wolters 1994; Wyk et al. 2004; Zeven/de Wet 1982

R

RANUNCULUS L. - Buttercup, Crowfoot - Ranunculaceae

Ranunculus ficaria L.

Synonyms ▶ *Ficaria verna* Huds.

Common Names ▶ celandine, lesser celandine, pilewort;

French: éclairette, ficaire; *German*: Scharbockskraut, Feigenwurz; *Russian*: tschistjak ljutitschnyj

Usage ▶ pot-herb, condiment

Parts Used ▶ leaf, flower bud

Distribution ▶ Europe, N Africa, Caucasus, Siberia, W Asia

Note ▶ The flower bud can be used as a substitute for capers.

Aichele/Schwegler 2, 1994; Bilgri/Adam 2000; Cheers 1997; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Heeger 1956; Hiller/Melzig 1999; Koschtschew 1990; Newall et al. 1996; Schnelle 1999; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999

RAVENSARA Sonn. - Lauraceae

Ravensara anisata Danguy

Common Names ▶ anise nutmeg; *German*: Anis-Muskat

Usage ▶ spice; **product**: essential oil (leaf)

Parts Used ▶ seed, bark, leaf

Distribution ▶ Comoros, Madagascar, Mascarenes, Seychelles

Gurib-Fakim/Brendler 2004; Neuwinger 1999

Ravensara aromatica Sonn.

Synonyms ▶ *Agathophyllum aromaticum* (Sonn.) Willd.

Common Names ▶ clove nutmeg, Madagascar clove, Madagascar nutmeg; *French*: muscade de Madagascar, noix girofle, noix de Ravensara; *German*: Madagaskar-Muskat, Nägeleinnuss, Nelkennuss, Ravensara-Nuss

Usage ▶ spice, like nutmeg

Parts Used ▶ bark, leaf, seed

Distribution ▶ Madagascar, Réunion, Mauritius; introduced into Sri Lanka

Bois 1934; Hager 5, 1993; Hiller/Melzig 1999; Morton 1976; Neuwinger 1999; Rätsch 1998; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Teuscher 2003; Uphof 1968; Usher 1968; Warburg 1897

RENANTHERA Lour. - Orchidaceae

Renanthera moluccana Bl.

Common Names ▶ *Indonesian*: anggrek merah; bunga karang;

Usage ▶ spice

Parts Used ▶ young leaf

Distribution ▶ Indonesia, Papua, New Guinea

Note ▶ The leaves are sour in taste, with a slight suggestion of capers (*Capparis* spp.) and can be used as a flavoring, alone or with other food acids.

Burkill 1966; Guzman/Siemonsma 1999; Mahyar 1988; Oyen/Dung 1999; Uphof 1968

RENEALMIA L.f. - Zingiberaceae

Renealmia alpinia (Rottboell) Maas

Synonyms ▶ *Amomum alpinia* Rottboell; *Renealmia exaltata* L.f.

Common Names ▶ mountain renenealmia; *German*: Berg-Renealmie; *Mexico*: ixquihit

Usage ▶ flavoring, used for wrapping a special dish

Parts Used ▶ leaf

Distribution ▶ tropical America: from Belize to Brazil, with the exception of the Greater Antilles

Hanelt 2001

Renealmia aromatica (Aubl.) Griseb.

Synonyms ▶ *Alpinia aromatica* Aubl.

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ S America: Guayana; C America: Cuba

Renealmia exaltata L.f.

➤ *Renealmia alpina* (Rottboel) Maas

Renealmia occidentalis Sweet

Synonyms ▶ *Renealmia domingensis* Horan

Usage ▶ flavoring

Distribution ▶ India

Renealmia thyrsoides (Ruiz et Pav.) Poepp. et Endl.

Synonyms ▶ *Amomum thyrsoides* Ruiz et Pav.

Common Names ▶ *Colombia*: yei'; *Ecuador*: teentekage, teentemo, unkwisi

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ S America: Costa Rica to Bolivia and Brazil; tropical Asia, specially Indonesia

Hanelt 2001; Sánchez-Monge/Parellada 1981; Schultze-Motel 1986; Vickers/Plowman 1984

Rhabarbarum palmatum (L.) Moench

➤ *Rheum palmatum* L.

RESEDA L. - Mignonette - Resedaceae

Reseda odorata L.

Common Names ▶ common mignonette, mignonette, sweet mignonette, sweet reseda; *French*: herbe d'amour, mignonette, réséda odorante; *Italian*: miglionet; *German*: Duft-Resede, Duft-Wau, Garten-Resede, Wohlrriechender Wau; *Italian*: reseda, amorino, amoretti d'Egitto, miglionet; *Portuguese*: reseda de cheiro, erva de amor, minhonete; *Russian*: rezeda duschistaja; *Spanish*: réseda de odor, miñoneta duschistaja

Usage ▶ flavoring (of tea); **product**: essential oil

Parts Used ▶ flower

Distribution ▶ N Africa, cultivated world wide, especially in China and Europe: S France

Cheers 1997; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Kays/Dias 1995; Schultze-Motel 1986; Uphof 1968; Wealth of India 8, 1969; Zeven et Wet 1982

REYNOLDA Gray - Araliaceae

Reynolda marchionensis F. Br.

Common Names ▶ *Polynesia*: pilohe pimata, pimata omoa

Usage ▶ scenting coconut oil; **product**: essential oil

Parts Used ▶ all plant parts

Distribution ▶ Polynesia

Uphof 1968

RHAMNUS L. - Buckthorn - Rhamnaceae

 **Rhamnus celtifolia** Thunb.

➤ *Rhamnus prinoides* L'Hérit.

 **Rhamnus lando** Llanos

➤ *Embelia philippinensis* A. DC.

 **Rhamnus prinoides** L' Hérit. 

Synonyms ▶ *Rhamnus celtifolia* Thunb.

Common Names ▶ buckthorn, dogwood; *Ethiopia*: t'ado, tando; *French*: bois de nerorun; épine noire, noir prun; *German*: Gerbereichen-ähnlicher Kreuzdorn; *Italian*: ramno catatico, spina cervina; *Russian*: kuschina slabitel'naja; *S Africa*: blinkblaar, hondepis, kondepishout, mofifi, *Spanish*: espino cervical

Usage ▶ spice

Parts Used ▶ bark

Distribution ▶ E, S Africa: Ethiopia to S Africa and Nigeria, Angola, in Ethiopia also cultivated

Note ▶ Sporadically as a substitute for hops (*Humulus lupulus* L.), e.g. for beer: 'talla', and other alcoholic beverage: honey wine and mead ('teedj').

Hanelt 2001; Jansen 1981; Joffe 1993; Ratsch 1998; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968

RHAPHIDOPHORA Hassk. - Araceae

 **Rhaphidophora lobbii** Schott

Common Names ▶ *Malaysian*: akar asam tebing paya

Usage ▶ spice, flavoring in curries

Parts Used ▶ leaf

Distribution ▶ Malaysia and Borneo



 **Rhamnus prinoides, fruiting**

Burkill 1966; Guzman/Siemonsma 1999; Oyen/Dung 1999

RHEUM L. - Rhubarb - Polygonaceae

 **Rheum officinale** Baill.

Common Names ▶ Chinese rhubarb, medicinal rhubarb, Tibetan rhubarb; *Chinese*: chiang chun, chai ta-huang; *French*: rhubarbe officinal; *German*: Gartenrhabarber; Chinesischer Rhabarber, Ostindischer Rhabarber, Türkischer Rhabarber; *Italian*: rabarbaro; *Portuguese*: ruibarbo; *Russian*: reven' aptetschnyj, reven' russkij, reven' kitajskij; *Spanish*: ruibarbo de la China

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ W China, Indochina, E Tibet, commonly cultivated

Aichele/Schwegler 2, 1994; Blundstone/Dickinson 1964; Chara-

lambous 1994; Cheers 1997; Dalby 2000; Erhardt et al. 2000, 2002; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Newall et al. 1996; Pschrempel 1998; Rättsch 1998; Schönfelder 2001; Schratz 1960; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Treptow 1985; Uphof 1968; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Zeven de Wet 1982

Rheum palmatum L.

Synonyms ▶ *Rhabarbarum palmatum* Moench

Common Names ▶ medicinal rhubarb, Turkey rhubarb;

French: rhubarbe palmée; *German*: Chinesischer Rhabarber, Kanton-Rhabarber, Kron-Rhabarber, Medizinalrhabarber, Türkischer Rhabarber; *Italian*: rabarbaro; *Korean*: taehwang; *Portuguese*: rabárbo; *Spanish*: ruibarbo, ruibarbo de levante

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ mountains of the North area between China and Tibet, cultivated in China, Russia, Europe

Aichele/Schwegler 2, 1994; Charalambous 1994; Cheers 1997; Coiciu/Racz (no year); Dregus et al. 2004; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Lewington 1990; Miyazawa et al. 1996; Pschyrembel 1998; Rättsch 1998; Schönfelder 2001; Schratz 1960; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Stahl et al. 1985; Täufel et al. 1993; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Rheum rhabarbarum L.

Synonyms ▶ *Rheum rhaponticum* L., *Rheum undulatum* L.

Common Names ▶ garden rhubarb, Siberian rhubarb, rhapontic rhubarb, rhubarb; *Arabic*: rawend zahar; *Chinese*: shi yung ta Huang; *French*: rha-pontic, rhubarbe (anglaise); *German*: Gewöhnlicher Rhabarber, Krauser Rhabarber, Sibirischer Rhabarber, Rha-pontik, Wellblatt-Rhabarber; *Italian*: rabarbaro, rapontico; *Japanese*: kara daio; *Korean*: taehwang, tungünip-taehwang; *Portuguese*: ruibarbo; *Russian*: rapontik; *Spanish*: ruibarbo (francés), rapontico;

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ Bulgaria, Rhodope mountains, C Asia, S Siberia ?, only cultivated

Note ▶ Petioles are used in sauces and pies.

Aichele/Schwegler 2, 1994; Bendel 2002; Charalambous 1994; Dalby 2000; Davidson 1999; Engelshove 1985; Erhardt et al. 2000, 2002; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Libert/Enghind 1989; Paneitz/Westendorf 1999; Rättsch 1998; Schratz 1960; Schultze-Motel 1986; Siemonsma/Piluek 1993; Täufel et al. 1998; Tindall 1983; Uphof 1968; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982

Rheum rhaponticum L.

▶ *Rheum rhabarbarum* L.

Rheum undulatum L.

▶ *Rheum rhabarbarum* L.

Rhododendrum palustre (L.) Kron et Judd

▶ *Ledum palustre* L.

RHODYMENIA Grev. - Rhodomeniaceae

Rhodymenia palmata (L.) Grev.

Synonyms ▶ *Palmaria palmata* (L.) Kuntze

Usage ▶ condiment

Parts Used ▶ sea weed

Distribution ▶ Pacific and Atlantic Ocean

Uphof 1968

RHUS L. - Sumach - Anacardiaceae

Rhus aromatica Ait.

Synonyms ▶ *Rhus canadensis* Marshall non Mill.

Common Names ▶ fragrant sumach, lemon sumach,

skunkbush, polecat bush, Sicilian sumac *Ara-bic*: summak; *Dutch*: zuurkruid; *French*: sumac odorant, suma des corroyeurs; *German*: Duft-Sumach, Gewürz-Sumach, Süßer or Wohlriechender Sumach; *Hindi*: kankrasing; *Italian*: sommacco; *Turkish*: suma, somak;

Usage ► spice, condiment (for zahtar)

Parts Used ► fruit (beers)

Distribution ► Canada, USA, E, SE and SW Europe, N Africa, Caucasus, C and W Asia

Note ► The fruits have a sour taste.

Bozan et al. 2002; Cheers 1997; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Roth/Kormann 1997; Rättsch 1998; Teuscher 2003; Wiersema/León 1999

Rhus canadensis Marshall non Mill.

► *Rhus aromatica* Ait.

Rhus commiphoroides Engl. et Gilg.

► *Rhus tenuinervis* Engl.

Rhus coriaria L.

Synonyms ► *Toxicodendron coriaria* Kuntze

Common Names ► sumac, Sicilian sumac, lemonade tree; *Arabic*: sumaq; *French*: sumac; *German*: Tanner's Sumach, Gerbersumach; Sizilianischer Sumach, Sumak; *India*: samaka, sumak, tatrak, timtima; *Italian*: sommacco; *Portuguese*: sumagre; *Russian*: sumakh; *Slovenian*: sumach; *Spanish*: zumaque; *Turkish*: sumak, somak, tatari, tetri, tirimli

Usage ► spice, e.g. admixture for condiments (zahtar), flavoring for tobacco (leaf)

Parts Used ► seed, leaf

Distribution ► Mediterranean region; E, SE Europe, Caucasus, Iran, C, W Asia, also cultivated in Spain, Italy, W Asia

Bärtels 1997; Berger 2, 1950; Bois 1934; Brunke 1994a, b; Craze 2002; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Erichsen-Brown 1989; Effenberger/Schilcher 1990; Guzman/Siemonsma 1999; Hanelt 2001; Hepper 1992; Hiller/Melzig

1999; Lück 2000; Morris/Mackley 1999; Norman 1991; Schultze-Motel 1986; Seidemann 1993c, 1995d; Seidemann/Siebert 1987; Siewek 1990; Staesche 1971, 1972; Täufel et al. 1993; Teuscher 2003; Uhl 2000; Wiersema/León 1999; Zeven/de Wet 1982

Rhus tenuinervis Engl.

Synonyms ► *Rhus commiphoroides* Engl. et Gilg.

Common Names ► *German*: Feinnerviger Sumach; *S Africa*: hyaena taaibos, morupapiri

Usage ► spice (of meat)

Parts Used ► leaf

Distribution ► southern Africa: Kalahari

v. Koenen 1996; Neuwinger 1999; Quattrocchi 2000

Ribesoides philippense O. Kuntze

► *Embelia philippensis* A. DC.

RICINODENDRON Mull. Arg. - Euphorbiaceae

Ricinodendron africanus Muell.

► *Ricinodendron heudelotii* (Baill.) Pierre ex Pax

Ricinodendron heudelotii (Baill.) Pierre ex Pax

Synonyms ► *Jatropha heudelotii* Baill., *Ricinodendron africanus* Muell.

Common Names ► African nut; *Angola*: minguela; *Cameroon*: andjejang; *French*: bois jasanga, essang; *Gabun*: engessam; *German*: Afrikanisches Mahagoni, Ojokbaum; *Ghana*: anwama; *Nigerian*: ekku; *Sierra Leone*: gbolei; *Spanish*: cuyo, ricino del país; *Uganda*: musodo;

Usage ► spice for sauce, condiment

Parts Used ► seed

Distribution ► tropical W and E Africa, cultivated in Cameroon

Aedo et al. 2001; Erhardt et al. 2002; Hanelt 2001; Neuwinger 1999;

Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

ROBINIA L. - Locust - Fabaceae (Leguminosae)

Robinia grandiflora L.

➤ *Sesbania grandiflora* (L.) Pers.

Robinia pseudoacacia L.

Common Names ▶ false acacia, black locust, robinia; *Chinese*: ci huai hua; *French*: faux acacia, robinier; *German*: Falsche Akazie, Schein-Akazie, Gemeine Robinie, Schotendorn, Silberregen; *Italian*: robinia, pseudo-acacia, false acacia; *Japanese*: hari-enju; *Korean*: akhasianamu; *Russian*: akazia belaja, robinia, loshno-akazija; *Spanish*: falsa acacia, robinia

Usage ▶ flavoring, e.g. fresh flowers added to omelettes

Parts Used ▶ flower

Distribution ▶ NC, NE and SE USA, widely cultivated and native in temperate regions, e.g. Europe

Aichele/Schwegler 2, 1994; Berger 1, 1949; Brockmann 1979; Cheers 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 3, 1992; 4, 1992; Hanelt 2001, Hiller/Melzig 1999; Hoppe 1949; Schnelle 1999; Schönefelder 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

R

RORIPPA Scop. - Water Cress - Brassicaceae (Crucifera)

Rorippa palustris (L.) Besser

Common Names ▶ common water cress; *German*: Gewöhnliche Sumpfkresse

Usage ▶ pot-herb

Parts Used ▶ young leaf

Distribution ▶ Europe, Caucasus, Turkey, W, E Siberia, Amur, Sakhalin, Kamchatka, C, E Asia, Himalayas, Mongolia, N America, S America, Egypt, Australia

Erhardt et al. 2002; Fleischhauer 2003; Schnelle 1999

Rorippa microphylla (Boenn.) Hyl.

➤ *Nasturtium microphyllum* Boenn. ex Rchb.

Rorippa nasturtium-aquaticum (L.) Hayek

➤ *Nasturtium officinale* R.Br.

Rorippa x sterilis Airy Shaw

➤ *Nasturtium x sterile* (Airy Shaw) Oefelein

ROSA - Rose - Rosaceae

Cheers 1997; Dimov/Tsoutsoulova 1987; Markley 1997, 1999; Nissen 1992; Schirarend/Heimeyer 1996; Singer 1885; Tantau/Weinhausen 1956

Rosa austriaca Crantz

➤ *Rosa gallica* L.

Rosa x centifolia L.

Common Names ▶ cabbage rose, Holland rose, provence rose; *French*: rose à cent feuilles, rose de mai; *German*: Mairose, Zentifolie; *India*: devataruni, gulab, irosa, satapatri; *Japanese*: seiyô-ibara; *Mexico*: guie becohua, quije pecohua castilla; *Russian*: roza stolistaja; *Sanskrit*: devataruna

Usage ▶ flavoring; **product**: essential oil (rose oil)

Parts Used ▶ floral leaf

Distribution ▶ Caucasus, N Iran to Turkey, cultivated in France, Italy, Morocco, India, China

Cheers 1997; Hanelt 2001; Schultze-Motel 1986



Rosa chinensis Jacq.

Common Names ▶ China rose, Bengal rose; *German*: China-Rose; *Korean*: wölkyéhwa;

Usage ▶ flavoring; **product**: essential oil (rose oil)

Parts Used ▶ floral leaf

Distribution ▶ China, widely cultivated

NICBPB 1987; Oka et al. 1998; Tantau/Weinhausen 1956; Wiersema/León 1999



Rosa x damascena Mill.

Synonyms ▶ *Rosa gallica* L. var. *damascena* Voss;

Common Names ▶ Damask rose, Portland rose, pink damask rose, Bulgarian rose; *Chinese*: du jue qiang wei, xia jin ying, chiang wei; *French*: rose de Damas, rose de tous les mois, rose de Puteaux; *German*: Damaszener Rose; Portland Rose; *Hindi*: fosli gulab, gulab ke phul; *Indonesian*: kembang eros, bunga ros; *Japanese*: kôshin-ibara; *Korean*: punhongkkotheyangjangri; *Laos*: kuhlaab; *Malaysian*: bunga ayer mawar, ros, gul; *Portuguese*: rosa de Damasco, rose pálida; *Russian*: roza damasskaja; *Sanskrit*: shata patri; *Thai*: kulaap-on, kulaap mon, yee sun; *Vietnamese*: huong

Usage ▶ flavoring; **product**: essential oil (rose oil)

Parts Used ▶ floral leaf

Distribution ▶ Bulgaria, France, Italy, Morocco, Russia, Turkey

Note ▶ Cultivated only for essential oil production and as an ornamental shrub. The floral leaves are often candied and used in confectionery.

Bayrak/Akgül 1994; Berger 1, 1949; Bois 1934; Bourton 1968; Charalambous 1994; Davidson 1999; Dudteschenko et al. 1989; Erhardt et al. 2002; Eugster/Märki-Fischer 1991; Fishman 1984; Hager 2, 1991; Hiller/Melzig 1999; Hoppe 1949; Kalkman 1993; Krüssmann 1974; Lewington 1990; Oka et al. 1998; Oyen/Dung 1999; Rohner-Reinhard 1988; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993; Sharma 2003; Shiva et al. 2002; Singh/Deolia 1963; Small 1997; Tantau/Weinhausen 1956; Täufel et al. 1993; Touw 1982; Tucker 1986; Uphof 1968; Vogt 1991; Widrechner 1981; Wiersema/León 1999; Zeven/de Wet 1982



Rosa florida Poir.

▶ *Rosa multiflora* Thunb.



Rosa gallica L.

Synonyms ▶ *Rosa austriaca* Crantz, *Rosa grandiflora* Salisb.

Common Names ▶ French rose; *Arabic*: ouard, *Chinese*: fa kuo, chiang wei; *French*: rose de Provence; *German*: Essigrose, Samtrose; *India*: gulab; *Portuguese*: roseira; *Russian*: roza francuzskaja

Usage ▶ flavoring, e.g. marzipan; **product**: essential oil (rose oil)

Parts Used ▶ floral leaf

Distribution ▶ S, C Europe, W Russia, Asia Minor; cultivated in Europe: S France, Spain, the Netherlands, England, former Soviet Union

Bremness 2001; Cheers 1997; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Schultze-Motel 1986



Rosa gallica L. var. *damascena* Voss

▶ *Rosa damascena* Mill.



Rosa gallica L. x *Rosa moschata* Herrm.

▶ *Rosa moschata* Herrm.



Rosa grandiflora Salisb.

▶ *Rosa gallica* L.



Rosa moschata Herrm.

Synonyms ▶ *Rosa gallica* L. x *Rosa moschata* Herrm.

Common Names ▶ musk rose; *French*: neseri, rosier musqué; *German*: Moschusrose; *India*: kubjaha, kuji, kujai; *Javanese*: kembang rus; *Portuguese*: roseira selvagem; *Russian*: roza muskusnaja; *Spanish*: mosquiteta blanca

Usage ▶ flavoring; **product**: essential oil (rose oil)

Parts Used ▶ floral leaf

Distribution ▶ S and E Asia mountains, Ethiopia, only cultivated

Davidson 1999; Erhardt et al. 2002; Hager 2, 1991; Hanelt 2001; Hiller/Melzig 1999; Hoffmann et al. 1992; Lewinton 1990; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Tantau/Weinhausen 1956; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

Rosa multiflora Thunb.

Synonyms ▶ *Rosa florida* Poir., *Rosa polyantha* Sieb. et Zucc., *Rosa rubeoides* Andr.

Common Names ▶ baby rose, bramble rose, Japanese rose, pilar rose, seven sister rose; *Chinese*: chiáng wei chun; *German*: Japanrose, Noisetterose; *Japanese*: no-ibara; *Javanese*: sekar rus; *Malaysian*: kembang erus

Usage ▶ flavoring of tea and diets

Parts Used ▶ floral leaf

Distribution ▶ N China, Japan, Korea, India (Assam, Uttar Pradesh); cultivated in India, China, Java, Japan

Cheers 1997; Hanelt 2001; Schultze-Motel 1986;

Rosa polyantha Sieb. et Zucc.

➤ *Rosa multiflora Thunb.*

Rosa rubeoides Andr.

➤ *Rosa multiflora Thunb.*

ROSMARINUS L. - Rosemary - Lamiaceae (Labiatae)

Rosmarinus lavandulaceus Noe

➤ *Rosmarinus officinalis L.*

Rosmarinus officinalis L.

Synonyms ▶ *Rosmarinus lavandulaceus* Noe

Common Names ▶ rosemary, compass plant; *Arabic*: ekleel aljabal, ikilil al-jabal, kelil; *Chinese*: mi tieh hsiang; *Dutch*: rozemarijn; *French*: romerino, incensier; rosmarin; *German*: Rosmarin, Kranzkräut; *India*: rusmari; *Italian*: ramerino, rosmarino; *Japanese*: mannenrû; *Pilipino*: dumero, romero, rosmir; *Portuguese*: alecrim, alerum; *Russian*: Rozmarin, morskaja rosa; *Spanish*: roméro; *Turkish*: biberye

Usage ▶ spice; **product**: essential oil (rosemary oil)

Parts Used ▶ leaf, herb

Distribution ▶ Mediterranean regions: Italy, Sardinia, Corsica, S France, cultivated worldwide

Aichele/Schwegler 4, 1995; Bano et al. 2003; Barbut et al. 1985; Bärtels 1997; Berger 2, 1950; Boelens 1985; Bourton 1968; Bremness 2001; Brieskorn et al. 1973; del Campo et al. 2000; di Cesare et al. 2001; Chalchat et al. 1993; Chang et al. 1977; Cheers 1997; Clair 1961; Coiciu/Racz (no year); Colins/Charles 1987; Davidson 1999; Dudtschenko et al. 1989; Elamrani et al. 2000; Fincke 1961; Flamini et al. 2002; Fournier et al. 1989; Guazzi et al. 2001; Guzman/Siemonsma 1999; Hager 1, 1990; Hanelt 2001; Heeger 1956; Henning et al. 2002; Hiller/Melzig 1999; Hof/Ammon 1989; Hoffmann et al. 1992; Hoppe 1949; Houlihan et al. 1985; Ibanez et al. 2000, 2003; Klimek et al. 2002; Lindberg et al. 1996; Melchior/Kastner 1974; Mule' et al. 1994; Munné-Bosch et al. 2000; Nakatani/Inatani 1981, 1984; Newall et al. 1996; Ochoa/Alonso 1996; Opdyke 1974; Ouahada/Benveniste 2000; Parnham/Kesselring 1985; Peter 2001; Pintore 2002; Pochljobkin 1974, 1977; Porte et al. 2000; Pruthi 1976; Pschyrembel 1998; Resche 1983; Reverchon/Senatore 1992; Rezzoug et al. 2000; Rosengarten 1969; Rosúa/García-Granados 1987; Roth/Kormann 1997; Salido et al. 2003; Schönfelder 2001; Schwarz/Ternes 1992a, b; Schwarz et al. 1992; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sfikas 1994; Sharma 2003; Shi et al. 2002; Shiva et al. 2002; Singh et al. 1996; Small 1997; Soliman et al. 1994; Staesche 1972; Tateo et al. 1988a, b; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Tucker/Maciarello 1986; Ubillos 1989; Uphof 1968; Vareltsis et al. 1997; Verotta 1985; Villamar et al. 1994; Wiersema/León 1999; Wolski et al. 2002; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982; Zimmermann 1980

RUMEX L. - Sorrel - Polygonaceae

Rumex acetosa L.

Synonyms ▶ *Acetosa pratensis* Mill.

Common Names ▶ common sorrel, garden sorrel, sorrel, sorrel dock, sour dock, sourgrass; *Arabic*: dierb, hummedha; *French*: grande oseille, oseille commune, oseille acide, oseille de belleville, rha-pontike des moines; *German*: Garten-Sauerampfer, Großer Sauerampfer, Wiesen-Sauerampfer; *Italian*: acetosa maggiore, atschetonsa, saleggiola; *Japanese*: sorelu, sukampo; *Portuguese*: azeda brava, azedinha da horta; *Russian*: stschewel' kisl'ij, stschavel' malyj, stschavelek; *Spanish*: acedera común, agrilla, vinagrera

Usage ▶ spice, for soups

Parts Used ▶ fresh leaf

Distribution ▶ N Africa, temperate Asia, India, Australia, Europe, native elsewhere

Aichele/Schwegler 2, 1994; Berger 4, 1954; Bilgri/Adam 2000; Bremness 2001; Cheers 1997; Erhardt et al. 2000, 2002; Erichsen-Brown 1989; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Koschtschew 1990; Schenck/Naundorf 1966; Schönfelder 2001; Small 1997; Täufel et al. 1993; Tucker 1986; Uhl 2000; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

Rumex acetosella L.

Common Names ▶ sheep sorrel; *German*: Kleiner Sauerampfer

Usage ▶ spice: for soups

Parts Used ▶ fresh leaf

Distribution ▶ Europe, Caucasus, W, E Siberia, Amur, Sakhalin, Kamchatka, native in N America

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993; Schnelle 1999

Rumex Alpstris Jacq.

➤ *Rumex scutatus L.*

Rumex crispus L.

Common Names ▶ curled dock, dock, narrow dock; *French*: rumex crépu, patience crépue; *German*: Krauser Ampfer; *Italian*: romine cresco, lapazio; *Japanese*: nagaba-gishigishi; *Korean*: songguji, so-rujaengi; *Peru*: moztaza; *Spanish*: acitosa, lengua de vaca

Usage ▶ condiment

Parts Used ▶ leaf

Distribution ▶ Europe; Turkey, C Asia, Mongolia, China, native N America, cosmopolitical

Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Schnelle 1999; Schönfelder 2001; Uphof 1968; Wyk et al. 2004

Rumex hastatus D.Don

Common Names ▶ speared sorrel; *German*: Spießiger Ampfer; *Hindi*: khatapalak;

Usage ▶ condiment (for chutney and pickles)

Parts Used ▶ leaf

Distribution ▶ India, W Himalayas: Kashmir

Arora/Pandey 1996; Uphof 1968

Rumex maritimus L.

Common Names ▶ golden dock; *German*: Ufer-Ampfer; *India*: jangli-palak, jal-palan, bunpaling, khattikan

Usage ▶ pot-herb (N India)

Parts Used ▶ leaf

Distribution ▶ Europe except Iberia, W, E Siberia, Amur, C Asia, N India, Mongolia, Japan, Algeria, America

Araora/Padney 1996; Erhardt et al. 2002; Kumar 2003

Rumex nemorosus Schrader

➤ *Rumex sanguisorbis L.*

Rumex obtusifolius L.

Common Names ▶ bitter dock, broadleaf dock; *French*: patience suvage; *German*: Stumpfblättriger Ampfer; *Italian*: romice dei prati; *Portuguese*: labaca; *Spanish*: vinagrillo, romaza de kojas grandes

Usage ▶ condiment

Parts Used ▶ young leaf

Distribution ▶ Europe, Turkey, Syria, Palestine, Cauca-

sus, N Iran, Canary Islands, Algeria, native in N America, S America, S Africa, Australia

Erhardt et al. 2002; Erichson-Brown 1989; Heeger 1956; Schönfelder 2001; Uphof 1968



Rumex sanguisorbis L.

Synonyms ▶ *Rumex nemorosus* Schrader

Common Names ▶ bloodred sorrel; *German*: Blut- or Hain-Ampfer;

Usage ▶ spice for soups (sporadically)

Parts Used ▶ leaf

Distribution ▶ temperate Europe, Caucasus, N Iran, NW Africa

Aichele/Schwegler 2, 1994; Erhardt et al. 2002



Rumex scutatus L.

Synonyms ▶ *Acetosa sculata* (L.) Mill., *Rumex alpstris* Jacq.

Common Names ▶ French sorrel, garden sorrel *French*: osielle aux feuilles rondes, osielle bouclier, osielle ronde, patience écousson; *German*: Römischer Ampfer, Rundblättriger Ampfer, Schild-Sauerampfer; *India*: amrula, ambarati, changeri; *Italian*: acetosa romana, erba pan a vin; *Russian*: stschawel stschitkoviduij; *Spanish*: acedera con hojas redondas francesa, acedera romana, acedera redonda

Usage ▶ pot-herb, flavoring soups and dishes

Parts Used ▶ leaf

Distribution ▶ S Europe, Alps, C Europe, Asia minor, India: W Himalayas, Caucasus, sporadically cultivated

Note ▶ The leaves are lemon-sour.

Aichele/Schwegler 2, 1994; Arora/Pandey 1996; Bremness 2001; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Schnelle 1999; Schultze-Motel 1986; Tucker 1986; Wiersema/León 1999; Zeven/de Wet 1982



Rumex vesicarius L.

Synonyms ▶ *Lapathum vesicarium* (L.) Moench

Common Names ▶ bladder dock, *French*: oseille

d'Amérique; *German*: Blasiger Sauerampfer, Indischer Sauerampfer; *Hindi*: ambari, chukra, chuka, saluni, shakkankirai

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Europe: Greece, N Africa, Asia minor, Arabian Peninsula, W Asia, India, Malaysia

Arora/Pandey 1996; Chopra et al 1956; Erhardt et al. 2002; Hanelt 2001; Ochse/Bakhuizen van den Brink 1931; Schultze-Motel 1986; Wiersema/León 1999; Zeven/de Wet 1982

RUTA L. - Rue - Rutaceae



Ruta altera Mill.

▶ *Ruta graveolens* L.



Ruta angustifolia Pers.

▶ *Ruta chalepensis* L.



Ruta bracteosa DC.

▶ *Ruta chalepensis* L.



Ruta chalepensis L.

Synonyms ▶ *Ruta angustifolia* Pers., *Ruta bracteosa* DC., *Ruta fumariaefolia* Boiss. et Heldr.f.

Common Names ▶ Egyptian rue, fringent rue, Syrian rue; *Arabic*: fidjel, fidjla; *French*: rue d'Algérie; *German*: Aleppo-Raute, Gefranste Raute, Syrische Raute; *Hindi*: pismarum, sadab, satari

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Canary Islands, Mediterranean region, Ethiopia, Arabia; cultivated C, S America, Mexico, W Indian Islands

Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; Jansen 1981; Ochoa/Alonso 1996; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Teuscher 2003; Uphof 1968; Vasudevan/Luckner 1968; Villamar et al. 1994; Zeven/de Wet 1982

**Ruta fumariaefolia** Boiss. et Heldr.➤ *Ruta chalepensis* L.**Ruta graveolens** L.**Synonyms** ▶ *Ruta altera* Mill., *Ruta officinalis* Pall.

Common Names ▶ common rue, fringed rue, herb of grace, herb of repentance, rue; *Arabic*: arudam fejan, *Chinese*: chou cao, yün xiang; *Dutch*: ruit; *French*: rue, rue de jardins, rue fétide, rue officinale, rue puante, herbe de grâce; *German*: Raute, Edelraute, Gartenraute, Weinraute, Gnadenkraut; *Hindi*: sitab; *Italian*: ruta, riccola, richetta; *Japanese*: henruda; *Javanese*: godong minggu; *Korean*: unhang; *Portuguese*: arruda; *Russian*: ruta, ruta sadowaja; *Sanskrit*: sitaba, somalata; *Spanish*: ruda común; *Turkish*: sedefotou

Usage ▶ spice; **product**: essential oil**Parts Used** ▶ herb**Distribution** ▶ E, SE and SW Europe, widely native in Europe and N Africa, also cultivated

Aichele/Schwegler 3, 1995; Andorn et al. 1972; Bärtels 1997; Becela-Deller 1991; Berger 4, 1954; Bois 1934; Böttcher/Günther 2003; Bourton 1968; Bremness 2001; Charalambous 1994; Cheers 1997; Clair 1961; Classen/Knobloch 1985; Coiciu/Racz (no year); Davidson 1999; Erhart et al. 2002; Fleischhauer 2003; Hager 3, 1992; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hondelmann 2002; Hoppe 1949; Jansen 1981; Nagel/Reinhard 1975; Novak et al. 1965; Ochoa/Alonso 1996; Pochljobkin 1974, 1977; Psyhrembel 1993; Rättsch 1998; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Vasudevan/Luckner 1968; Villamar et al. 1994; Yaacob et al. 1989; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

**Ruta graveolens** L. var. *montana*➤ *Ruta montana* L.**Ruta montana** L.**Synonyms** ▶ *Ruta graveolens* L. var. *montana* L.

Common Names ▶ mountain rue; *Arabic*: fdjla el-djebeli; *French*: rue de montagnes; *German*: Bergraute; *Spanish*: ruda de monte

Usage ▶ spice**Parts Used** ▶ herb**Distribution** ▶ SW Europe, N Africa, Mediterranean regions, also cultivated

Bourton 1968; Hanelt 2001; San Miguel 2003; Schultze-Motel 1986; Seidemann 1993; Teuscher 2003; Vasudevan/Luckner 1968

**Ruta officinalis** Pall.➤ *Ruta graveolens* L.

S

SABA Pichon - Apocynaceae

Saba senegalensis (DC.) Pichon

Synonyms ▶ *Landolphia senegalensis* Kotsch. et Peyr.

Usage ▶ spice for sauces; condiment

Parts Used ▶ leaf

Distribution ▶ tropical W Africa: the Gambia, Guinea, Ivory Coast, Mali, Nigeria, Senegal

Note ▶ The plant is an appetite stimulant.

Burkill 1, 1985; Neuwinger 1998, 1999; Pelisier et al. 1996

Salisburya biloba Hoffmannsegg

➤ *Ginkgo biloba* L.

SALVADORA L. - Salvadoraceae

Salvadora indica Wight

➤ *Salvadora persica* L.

Salavadora paniculata Zucc. ex Steud.

➤ *Salvadora persica* L.

Salvadora persica L.

Synonyms ▶ *Cissus arborea* Forrsk., *Salvadora indica* Wight, *Salvadora paniculata* Zucc. ex Steud.

Common Names ▶ salt bush, toothbrush tea; *Arabic*: arak, miswak, siwak; *French*: arbre brosse à dents; *German*: Salzbusch, Senfbaum, Zahnbürstenstrauch, Löwenbusch; *India*: chota pilu, jhak, kharjal, kakam, piludi, pilva, rhakhan

Usage ▶ condiment (raw leaves) for sauces and salads

Parts Used ▶ leaf, fruit

Distribution ▶ N and SW Africa: Mali, Niger, Nigeria, Senegal; NW India

Note ▶ The taste of the fruits “Senf der Bibel” is pungent or peppery. The peeled and dry miswak twigs are used as tooth-brush in the arabian countries.

Arora/Pandey 1996; Burkill 5, 2000; Dalziel 1937; Hanelt 2001; Hiller/Melzig 1999; v. Koenen 1996; Roberty 1953; Uphof 1968; Wealth of India 9, 1972; Wyk et al. 2004

SALVIA L. - Sage - Lamiaceae (Labiatae)

Demirci et al. 2002; Yingrong Lu, Yeap Foo 2002

Salvia aethiopis L.

Synonyms ▶ *Salvia lanata* Moench, *Sclarea aethiopis* (L.) Mill.

Common Names ▶ African sage, Mediterranean sage, wally sage; *German*: Afrikanischer Salbei,

Mohren-Salbei, Ungarischer Salbei; *Italian*: etiopide salvia

Usage ▶ spice, flavoring

Parts Used ▶ herb

Distribution ▶ S Europe, Iberia, S France, N Africa, Turkey, Asia minor, Transcaucasia, W Asia, native in N America

Boya/Valverde 1981; Chalchat et al. 2001a; Clebsch 1997; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Sutton 1999; Ulubelin/Uygur 1976; Wiersema/León 1999

Salvia aramiensis Rech.

Common Names ▶ Aramenian salve; *German*: Aramenscher Salbei

Usage ▶ flavoring

Parts Used ▶ herb

Distribution ▶ Armenia, Turkey

Demirci et al. 2002a; Sarer 1987

Salvia argentea L.

Synonyms ▶ *Salvia candidissima* Guss.

Common Names ▶ silver sage; *French*: sauge argentée; *German*: Silberblatt-Salbei

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ Europe: S Spain, France, Balkans, Turkey, NW Africa

Clebsch 1997; Erhardt et al. 2002; Sutton 1999

Salvia bengaliensis König ex Roxb.

▶ *Meriandra bengaliensis* (Konja ex Roxb.) Benth.

Salvia camertoni Regel

▶ *Salvia elegans* Vahl



 **Salvia argentea**, plant

Salvia candidissima Guss

▶ *Salvia argentea* L.

Salvia carduacea Benth.

Common Names ▶ thistle sage; chia; *German*: Distelartiger Salbei, Distel-Salbei

Usage ▶ spice, condiment

Parts Used ▶ leaf

Distribution ▶ SE Asia, USA: California, Mexico

Clebsch 1997; Erhardt et al. 2002; Hanelt 2001; Kintzios 2000; Usher 1974

Salvia chudaei Batt. et Trab.

Usage ▶ condiment (in the Hogger region)

Parts Used ▶ plant

Distribution ▶ Sahel of Mali

Burkill 3, 1995; Maire 1933

Salvia clandestina L.

➤ *Salvia verbenaca* L.

Salvia clevelandii (A. Gray) Greene

Common Names ▶ blue sage, Jim sage; *German*: Cleveland Salbei, Blauer Salbei, Marzipan-Salbei

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ native of California; Canada, northern USA

Clebsch 1997; Kintzios 2000; Small 1997

Salvia discolor Kunth

Common Names ▶ Peruvian sage; *German*: Peruanischer Salbei, Verschiedenfarbiger Salbei;

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ S America: Peru

Note ▶ the plant has a fruity, eucalyptus scent.

Cheers 1997; Clebsch 1997; Erhardt et al. 2002; Kintzios 2000; Small 1997; Sutton 1999

Salvia divinorum Epling et Játiva

Common Names ▶ herb of the Virgin; *German*: Azteken-Salbei, Wahrsager-Salbei; *Mexico*: pipiltzintzinli; *Spanish*: hierba de la pastora, yerba de Maria

Usage ▶ flavoring

Parts Used ▶ herb, leaf

Distribution ▶ Mexico: Oaxaca

Erhardt et al. 2002; Hiller/Melzig 1999; Hanelt 2001; Rätsch 1998; Schultze-Motel 1986; Small 1997; Sutton 1999; Uphof 1968

Salvia dorisiana Standley

Common Names ▶ British Honduran sage, fruit sage; *German*: Fruchtsalbei, Goldsalbei, Pfirsich-Salbei

Usage ▶ spice, flavoring: for fragrant concoctions and tea

Parts Used ▶ leaf

Distribution ▶ Honduras

Cheers 1997; Clebsch 1997; Halim/Collins 1975; Hanelt 2001; Kintzios 2000; Small 1997; Sutton 1999; Tucker 1986

Salvia elegans Vahl

Synonyms ▶ *Salvia camertoni* Regel, *Salvia incarnata* Cav., *Salvia rutilans* Carr.

Common Names ▶ tangerine sage, pineapple-scented sage (USA); *German*: Ananas-Salbei, Honigmelonen-Salbei

Usage ▶ pot-herb

Parts Used ▶ leaf, herb

Distribution ▶ C, S America: Mexico, Guatemala, only cultivated

Note ▶ The odor are few showed.

Bremness 2001; Cheers 1997; Clebsch 1997; Erhardt et al. 2002; Hanelt 2001; Kintzios 2000; Morton 1976; Small 1997; Sutton 1999; Teuscher 2003; Tucker 1986; Villamar et al. 1994

Salvia fruticosa Mill.

Synonyms ▶ *Salvia libanotica* Boiss. et Gaill., *Salvia triloba* L.f.

Common Names ▶ Greek sage, Turkish sage; *Arabic*: khayat el-djurhat; *Cretan*: faskomilia, sfakomilia; *French*: pomme de sauga, sauge trilobée, sauge à trois lobes; *German*: Fruchtsalbei, Griechischer Salbei, Kreuzsalbei; *Italian*: salvia trilobata; *Spanish*: salvia real, salvia triloba; *Turkish*: elma yagi; salvia real

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ Mediterranean regions: from S Balkans to Lebanon, Libya, S Italy, Albania, Dalmatia, Tur-

key; subspontaneously in NW Africa and Middle East; cultivated relict in S Spain and Algarve

Note ► The plant is also used as an adulterant of *Salvia officinalis* L.

Abdalla et al. 1983; Anon. 1993; Bärtels 1997; Berger 2, 1950; Brieskorn/Biechele 1971; Catsiotis/Iconomou 1984; Clebsch 1997; Erhardt et al. 2002; Hager 3, 1993; Hanelt 2001; Harvala et al. 1987b; Hepper 1992; Hiller/Melzig 1999; Hohmann et al. 2001; Karousou et al. 1998; Kintzios 2000; Pizzale et al. 2002; Pschyrembel 1998; Putievsky et al. 1986; Roth/Kormann 1997; Rhyu 1979; Schönfelder 2001; Schultze-Motel 1986; Small 1997; Sutton 1999; Teuscher 2003; Tucker 1986; Wiersema/León 1999

Salvia glutinosa L.

Common Names ► Jupiter's distaff, sticky sage; *French*: sauge glutineuse; *German*: Klebriger Salbei, Gelber Salbei

Usage ► spice; **product**: essential oil

Parts Used ► herb

Distribution ► Europe, Turkey, Caucasus, N Iran

Clebsch 1997; Erhardt et al. 2002; Hoppe 1 1975; Kintzios 2000; Sutton 1999

Salvia grahamii Benth.

► *Salvia microphylla* Humb., Bonpl. et Kunth. var. *microphylla*

Salvia hispanica L.

Synonyms ► *Salvia tetragona* Moench

Common Names ► Spanish sage; *French*: sauge de l'Espagne; *German*: Spanischer Salbei; *Guatemala*: chíán, chan; *Mexico*: chía, chía blanco, chía del campo

Usage ► spice, similar in sauces, salads, soups, beverages, diet food; **product**: essential oil (from leaves)

Parts Used ► seed, herb

Distribution ► SW USA: California to New Mexico; Mexico; spread to Cuba, Jamaica, and in the hills of Java

Note ► The species was cultivated widely by the Aztecs before the Spanish conquest. The seeds have a high fatty oil content.

Ahmed et al. 1994; Burkhil 1966; Bushway et al. 1984; Cahill 2003; Clebsch 1997; Estilai et al. 1990; Hanelt 2001; Kintzios 2000; Schultze-Motel 1986; Small 1997; Täufel et al. 1993; Uphof 1968; Villamar et al. 1994; Wiersema/León 1999

Salvia hispanorum Lag.

► *Salvia lavandulifolia* Vahl

Salvia horminum L.

► *Salvia viridis* L.

Salvia incarnata Cav.

► *Salvia elegans* Vahl

Salvia lanata Moench

► *Salvia aethiopis* L.

Salvia lavandulifolia Vahl

Synonyms ► *Salvia hispanorum* Lag.

Common Names ► Spanish sage, lavender sage; *Dutch*: spaanse salie; *French*: sauge à feuilles de lavande; *German*: Lavendelblättriger Salbei, Spanischer Salbei; *Spanish*: salvia fina

Usage ► spice, flavoring for desserts, soft drinks, alcoholic beverage; **product**: essential oil

Parts Used ► leaf

Distribution ► Spain, France (Pyrenees), also cultivated

Note ► The plant is also used as adulterant of *Salvia officinalis* L.

Bärtels 1997; Bourton 1968; Bremness 2001; Charalambous 1994; Clebsch 1997; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Kintzios 2000; Melchior/Kastner 1974; Perry et al. 2002; Roth/Kormann 1997; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993; Small 1997; Sutton 1999; Tomás-Lorente et al. 1988; Tucker 1986; Villamar et al. 1994; Wiersema/León 1999

Salvia libanotica Boiss. et Gaill.

► *Salvia fruticosa* Mill.

Salvia menthaefolia Tenore

Common Names ► Italian spring sage; *German*: Italienischer Frühlings-Salbei

Usage ► spice, flavoring

Parts Used ► leaf, herb

Distribution ► S Europe: Italy

Clebsch 1997; Kintzios 2000

Salvia microphylla Humb., Bonpl. et Kunth. **var. microphylla**

Synonyms ► *Salvia grahamii* Benth.

Common Names ► Graham salve, grapefruit sage; *German*: Graham's Salbei, Grapefruit-Salbei

Usage ► flavoring

Parts Used ► leaf

Distribution ► Mexico

Clebsch 1997; Erhardt et al. 2002; Hoppe 3, 1987; Sutton 1999

Salvia officinalis L.

Synonyms ► *Salvia officinalis* L. ssp. *major* Gams, *Salvia tomentosa* Mill.

Common Names ► sage, common sage, garden sage; *Arabic*: maryamiya; mofassa, salima, salmya; *Chinese*: ching chieh; *French*: sauge, grande sauge, sauge officinale, thé de la Grèce, herbe sacrée; *German*: Echter Salbei, Garten-Salbei, Dalmatiner Salbei, Königssalbei; *Italian*: salvia; *Japanese*: sage; *Korean*: yakpulkkot; *Portuguese*: sálvia; *Russian*: schal-fej aptetschny, schawlij, schal'wija; *Spanish*: salvia oficinal, salvia real; *Turkish*: adacayi

Usage ► spice, for various dishes, soups, sauces, salads, conserves, meat fish, cheese, wine etc.; **product**: essential oil

Parts Used ► leaf

Distribution ► S, SE Europe cultivated and native elsewhere: Mediterranean regions, Ukraine, Moldavia, C Europe, India, Indonesia (Java), Tanzania, southern Africa, Antilles, Canada, USA, Brazil

Note ► The species is very variable, especially in regard to leaf character. Many cultivars had been released.



 **Salvia officinalis, flowering**

Aichele/Schwegler 4, 1995; Andrews 1956; Asllani 2000; Bärtels 1997; Berger 2, 1950; Boelens/Boelens 1997; Bourton 1968; Bremness 2001; Brieskorn 1991; Brieskorn/Biechele 1971; Brieskorn/Dömling 1969; Brieskorn/Fuchs 1962; di Cesare et al. 2001; Cheers 1997; Clair 1961; Clebsch 1997; Coiciu/Racz (no year); Cuvelier et al. 1994; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Farrell 1985; Grella/Picci 1988; Guzman/Siemonsma 1999; Hager 3, 1992; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann 1970; Hohmann et al. 2001; Hoppe 1949; Ivanic/Savin 1976; Jalsenjak et al. 1987; Kintzios 2000; Kouhila et al. 2001; Kreutzig 1982; Länger et al. 1993; Melchior/Kastner 1974; Miura et al. 2001; Newall et al. 1996; Ollanketo et al. 2002; Pachaly 1990a; Perry et al. 1999; Peter 2001; Piccaglia et al. 1997; Pino et al. 2002; Pizzale et al. 2002; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Putjevsky et al. 1986; Reverchon et al. 1995; Rosengarten 1969; Roth/Kormann 1996; Santos-Gomes/Fernandes-Ferreira. 2003; Schönfelder 2001; Schultze-Motel 1986; Schwarz/Ternes 1992 a, b, 1993; Schwarz et al. 1992; Seidemann 1993c; Seidemann/Siebert 1987; Seyboldt 1998; Shi et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Sutton 1999; Täufel et al. 1993; Tucker 1986; Tucker et al. 1980; Tucker/Maciarello 1990; Turova et al. 1987; Ubillos 1989; Ulubelen et al. 1981; Uphof 1968; Usher 1974; Vernin/Metzger 1986; Wealth of India 9, 1972; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Yinrong Lu/Yeap Foo 2000, 2001; Wyk et al. 2004; Zeven/de Wet 1982

 Salvia officinalis L. ssp. major *Gams*

➤ *Salvia officinalis* L.

 Salvia rutilans *Carr.*

➤ *Salvia elegans* Vahl

 Salvia sclarea L.

Synonyms ▶ *Sclarea vulgaris* Mill.

Common Names ▶ clary, clary sage, clary wort, English sage, muscat sage; *Arabic*: kaff ed-dubb; *French*: sauge sclarée, orvale, toute bonne; *German*: Clary-Salbei, Muskateller-Salbei, Scharlachkraut, Scharlei; *Italian*: erba moscatella sclarea; *Russian*: shafej muskatny; *Spanish*: hierba de los ojos

Usage ▶ spice, for liqueurs and wines (vermouth and muscatel), flavoring dishes and salads; **product**: essential oil (oil of clary); young leaves are eaten as a dessert (with orange sauce and sugar)

Parts Used ▶ leaf

Distribution ▶ SW Europe: Iberia, France, E Europe, Turkey, Syria, Palestine, Caucasus, Iran, C Asia, NW Africa, Kenya, native in Austria and Switzerland; frequently cultivated

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 2, 1950; Bremness 2001; Carrubba et al. 2002; Charalambous 1994; Cheers 1997; Clair 1961; Clebsch 1997; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Ilieva 1979; Kintzios 2000; Maurer/Hauser 1983; Mikus/Schaser 1995; Pitarokili et al. 2002; Roth/Kormann 1997; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shiva et al. 2002; Small 1997; Sutton 1999; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Ubilos 1989; Uphof 1968; Usher 1974; Wiersema/León 1999; Wl. 2004; Zámboi/Nyárádi-Szabady 1989; Zeven/de Wet 1982

 Salvia tetragona *Moench*

➤ *Salvia hispanica* L.

 Salvia tomentosa *Mill.*

➤ *Salvia officinalis* L.

 Salvia triloba L.f.

➤ *Salvia fruticosa* Mill.

 Salvia verbenaca L.

Synonyms ▶ *Salvia clandestina* L.

Common Names ▶ wild clary, verveine sage; *French*: sauge vervaine; *German*: Eisenkraut-Salbei

Usage ▶ spice, flavoring

Parts Used ▶ leaf

Distribution ▶ Asia minor, southern Mediterranean regions, S Europe, W Europe to Scotland, introduced to S Africa, S Australia and USA

Note ▶ Fresh leaves added to omelettes in Macronesia and SW Asia.

Aichele/Schwegler 4, 1995; Bärtels 1997; Cabo et al. 1986; Erhardt et al. 2002; Hanelt 2001; Kintzios 2000; Schultze-Motel 1986; Sutton 1999; Tucker 1986

 Salvia verticillata L.

Common Names ▶ *German*: Quirlblütiger Salbei, *Russian*: chalfej mutovtschatij

Usage ▶ spice, flavoring

Parts Used ▶ herb

Distribution ▶ S, SE Europe, France, Turkey, Asia minor, N Iraq, N Iran, Caucasus, W Siberia, native in C Europe, British Isles, Scandinavia, N America

Chalchat et al. 2001a; Clebsch 1997; Erhardt et al. 2000, 2002; Hanelt 2001; Schultze-Motel 1986

 Salvia viridis L.

Synonyms ▶ *Salvia horminum* L.

Common Names ▶ bluebeard sage, annual sage, Joseph sage, red topped sage; *Canada*: painted sage; *French*: sauge hormin or verte; *German*: Scharlachsalmi, Schopf-Salbei; *Italian*: gallitrico, chiaia, ormio

Usage ▶ spice for salads, soups and cooked vegetables; flavoring for beer and wine

Parts Used ▶ leaf

Distribution ▶ Morocco to Tunisia, S Europe, Turkey,

Iraq, Iran, Transcaucasia, Turkmenistan, also cultivated in C Europe

Cheers 1997; Clebsch 1997; Erhardt et al. 2002; Hanelt 2001; Hepper 1992; Kintzios 2000; Kokkalou et al. 1982; Schultze-Motel 1986; Small 1997; Sutton 1999; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Ulubelen/Brieskorn 1975; Ulubelin et al. 1977; Uphof 1968; Usher 1974; Wiersema/León 1999; Zeven/de Wet 1982

Samara philippensis Vidal.

➤ *Embelia philippensis* A.DC.

SAMBUCUS L. - Elder - Caprifoliaceae

Sambucus nigra L.

Common Names ► black elder, common elder, European elder, elderberry; *Arabic*: okkez sidi moussa, bilasan, khelwan, kaman kabir; *French*: grand sureau, sureau commun, sureau noir; *German*: Fliederbeere, Holder, Hollerbeeren, Schwarzer Holunder; *Italian*: sambuco; *Portuguese*: sabugueiro negro; *Russian*: busina; *Spanish*: saúco (común), sambugo;

Usage ► spice, flavoring

Parts Used ► flower

Distribution ► Europe, Turkey, W Asia: Caucasus, N Iraq, W Iran, N Africa, also cultivated in Africa and Asia

Note ► Fresh flowers added to flavoring of omelettes.

Aichele/Schwegler 3, 1995; Becker 1981; Bendel 2002; Benk 1981; Berger 1, 1949; Bilgri/Adam 2000; Bremness 2001; Charalambous 1994; Cheers 1997; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Eichinger 1999; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hoppe 1949; Jensen/Nielsen 1973; Jorgensen et al. 2000; Newall et al. 1996; Pschyrembel 1998; Richter/Willuhn 1974; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Toulemonde/Richard 1983; Turova et al. 1987; Wiersema/León 1999; Willuhn/Richter 1977; Wyk et al. 2004; Zeven/de Wet 1982

SANGUISORBA L. - Burnet - Rosaceae

Sanguisorba auriculata Scop

➤ *Sanguisorba officinalis* L.

Sanguisorba minor Bertol.

➤ *Sanguisorba minor* Scop.

Sanguisorba minor Scop.

Synonyms ► *Pimpinella minor* (Scop.) Lam., *Poteria sanguisorba* L., *Sanguisorba minor* Bertol.

Common Names ► burnet, salad burnet, small burnet; *French*: petite pimprenelle, pimprenelle, pimprenelle commune des prés, pimprinelles des jardins, prompenelle sanguisorbe; *German*: Kleiner Wiesenknopf, Kleine Bibernelle, Kleine Pimpinelle, Bockspetersilie, Steinpilzpetersilie, Husaren-Knopf; *Italian*: salvastrella, sanguisorba; *Russian*: tschernogolownik krowochlebkowyj; *Spanish*: pimpinela menor, pimpinela sanguisorba, salvastrella

Usage ► pot-herb

Parts Used ► fresh leaf

Distribution ► Europe, Turkey, Caucasus, N Iran, W Himalayas, Altai mountains, C Asia, Siberia, NW Africa, Libya; native elsewhere

Aichele/Schwegler 2, 1994; Bilgri/Adam 2000; Bremness 2001; Cheers 1997; Clair 1961; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Teuscher 2003; Tucker 1986; Wiersema/León 1999

Sanguisorba officinalis L.

Synonyms ► *Poterium officinale* (L.) A. Gray; *Sanguisorba auriculata* Scop.,

Common Names ► burnet, garden burnet, great burnet; *Chinese*: ti-gü; *French*: grande pimprenelle, pimprenelle des prés, sanguisorbe officinale; *German*: Blutkopf, Großer Wiesenknopf, Große Bibernelle,

Große Pimpinelle, Sperberkraut; *Italian*: salvastrella maggiore, sorbastrella, meloncella; *Japanese*: waremoko; *Russian*: krowochljobka; *Spanish*: pimpinela mayor

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ Europe, Caucasus, W, E Siberia, temperate Asia; N America, native elsewhere.

Aichele/Schwegler 2, 1994; Cheers 1997; Clair 1961; Erhardt et al. 2002; Fleischhauer 2003; Koschtschjew 1990; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Newall et al. 1996; Nordborg 1967; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Usher 1968; Wyk et al. 2004; Zeven/de wet 1982

SANSEVIERIA Thunb. - Bowstring Hemp, Snake Plant - Dracaenaceae (Agavaceae)

Sansevieria guineensis G  rome et Labroy

➤ *Sansevieria trifasciata* Prain

Sansevieria trifasciata Prain

Synonyms ▶ *Aloe guineensis* Jacq., *Sansevieria guineensis* G  rome et Labroy

Common Names ▶ mother-in-law's tongue, African bowstring hemp, konje hemp, leopard lily, snake plant, tiger cat; *Chinese*: hu wei lan; *French*: chavre d'Afrique, sans  vi  re; *German*: Dreib  ndiger Bogenhanf, Schwi  germutterzunge; *Italian*: sanseveria; *Russian*: sanseverija trechputschkovaja, sansev'ra; *Spanish*: sanseveria; lengua de suegra

Usage ▶ flavoring, spice

Parts Used ▶ leaf

Distribution ▶ tropical W Africa, S Nigeria, native in E Asia

Note ▶ The little flowers have an intense honey odor.

Agarwal 1990; Cheers 1997; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Wealth of India 9, 1972; Wiersema/Le  n 1999; Zeven/de Wet 1982

SANTALUM L. - Sandalwood - Santalaceae

Santalum album L.

Synonyms ▶ *Santalum myrtifolium* (L.) Roxb., *Santalum ovatum* R.Br., *Sirium myrtifolium* L.

Common Names ▶ East Indian sandalwood, white sandalwood, yellow sandalwood, white saunders; *Chinese*: chen tan, tan hsiang, tan xiang; *French*: bois santal, santal blanc, santal des Indes; *German*: Wei  es Sandelholz; *Hindi*: safed candan, chandon; *Indonesian*: cendana, ai nitu, hau meni; *Italian*: sandalo blanco; *Malaysian*: chendana; *Portuguese*: s  ndalo blanco; *Russian*: sandalowoe derewo beloe; *Sanskrit*: candana, gandhasara, srikhanda; *Spanish*: le  o de santalo citrino, s  ndalo blanco, s  ndalo Indias orientales; *Thai*: chantana

Usage ▶ spice, flavoring e.g. ragouts; **product**: essential oil

Parts Used ▶ wood

Distribution ▶ Thailand, Indonesia, Malaysia, India, also cultivated in native range

Note ▶ Buddhists, Chinese and Muslims have used sandalwood as incense for its sweet fragrance in their ceremonies.

Barrett/Fox 1994a, b; Berger 3, 1952; Bourton 1968; Brunke/Schmaus 1995; Charalambous 1994; Cheers 1997; Dalby 2000; Dastur 1954; Davidson 1999; Erhardt et al. 2002; Harisetijono/Suriamihardja 1993; Hiller/Melzig 1999; Hoppe 1949; Kadambi 1954; Mathur 1961; Newall et al. 1996; Opdyke 1982; Oyen/Dung 1999; Piggott et al. 1997; Pschyrembel 1998; R  tsch 1998; Roth/Kormann 1997; Schultze-Motel 1986; Sharma 2003; Srinivasan et al. 1992; Wiersema/Le  n 1999; W  stenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Santalum myrtifolium (L.) Roxb.

➤ *Santalum album* L.

Santalum ovatum R.Br.

➤ *Santalum album* L.

SANTOLINA L. - Santolina - Asteraceae (Compositae)

Santolina rosmarinifolia L.

Synonyms ▶ *Santolina virens* Mill., *Santolina viridis* Willd.

Common Names ▶ green santolina; *German*: Grüne Heiligenblume, Grünes Heiligenkraut, Rosmarinblättriges Heiligenkraut

Usage ▶ flavoring

Parts Used ▶ (fresh) herb

Distribution ▶ SW Europe: Iberia, S France, Morocco

Note ▶ Sold in Algarve markets for flavoring.

Bremness 2001; Erhardt 2002; Mabberly 1997

Santolina virens Mill.

➤ *Santolina rosmarinifolia* L.

Santolina viridis Willd.

➤ *Santolina rosmarinifolia* L.

Saponaria vaccaria L.

➤ *Vaccaria hispanica* (Mill.) Rauschert

SAPOSHNIKOVA Schischk. - Apiaceae (Umbelliferae)

Saposhnikova divaricata (Turcz.) Schischk.

Synonyms ▶ *Siler divaricatum* (Turcz.) Benth. et Hook.f.

Common Names ▶ *Chinese*: fang-feng; *German*: Sperrige Saposhnikovie; *Japanese*: tosukey böfu; *Korean*: pangphung; *Russian*: sapozhnikovija rastopyrenaja;

Usage ▶ spice, like parsley

Parts Used ▶ fresh leaves

Distribution ▶ NE China, E Siberia, Mongolia, Far Eastern Russia, Korea

Note ▶ The herb is a traditional condiment in Korea.

Baik et al. 1986; Hanelt 2001; Wiersema/León 1999

Sarothamnus scoparius (L.) Wimmer ex Koch

➤ *Cytisus scoparius* (L.) Link

SASSAFRAS Nees - Sassafras - Lauraceae

Sassafras albidum (Nutt.) Nees

Synonyms ▶ *Laurus albida* Nutt., *Sassafras officinalis* Nees et Eberm., *Salvia varrifolium* Salisb.

Common Names ▶ silky sassafras, cinnamo wood, fennel wood, saloop; *Arabic*: sasfras; *French*: sassafras blanc, bois de sassafras; *German*: Weißer Sassafras, Fenchelholzbaum, Nelkenzimtbaum; *Italian*: sassfrasso; *Spanish*: sasafrás

Usage ▶ spice, flavoring; **product**: essential oil (this oil has a high safrol content).

Parts Used ▶ bark, leaf

Distribution ▶ from E America and Canada to N Mexico

Note ▶ The powdered leaves (*Filé-Powder*) by the Choctaw-Indians (southern USA) are used as spice for soups, sauces, stews etc. The root bark was also used in brewing root beer. The flowers were used as tea or brewed in beer.



■ *Sassafras albidum*, flowering

Alberts/Muller 2000; Berger 1, 1949; 3, 1952; Bourton 1968; Charalambous 1994; Cheers 1997; Davidson 1999; Duke et al. 2003; Erhardt et al. 2002; Erichsen-Brown 1989; Hager 7, 1995; Hiller/Melzig 1999; Hoppe 1949; Mors/Rizzini 1961; Pschyrembel 1998; Rättsch 1998; Roth/Kormann 1997; Sethi et al. 1976; Seidemann 1993c; Siewek 1990; Teuscher 2003; Tucker 1986; Uphof 1968; Wiersema/León 1999; Zwaving/Bos 1996

Sassafras officinalis Nees et M. Ebert

➤ *Sassafras albidum* (Nutt.) Nees

SATUREJA L. - Savory - Lamiaceae (Labiatae)

Satureja acinos (L.) Scheele

➤ *Acinos arvensis* (Lam.) Dandy

Satureja biflora (Buch.-Ham. ex D. Don) Briq.

Synonyms ▶ *Micromeria imbricata* Forssk.

Common Names ▶ lemon savory; *German*: Afrikanisches Zitronen-Bohnenkraut

Usage ▶ flavoring

Parts Used ▶ herb

Distribution ▶ Africa: Red Sea to Ethiopia

Note ▶ The plant has a strong citrus aroma.

Hoppe 3, 1987; Small 1997

Satureja calamintha (L.) Scheele

➤ *Calamintha menthifolia* Host

Satureja capitata L.

➤ *Thymus capitatus* (L.) Hoffmanns & Link

Satureja cuneifolia Ten.

Usage ▶ condiment, relish; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ SE Europe: Croatia, Dalmatia

Milos et al. 2001; Mirjana et al. 2004

Satureja douglasii (Benth.) Briq.

Synonyms ▶ *Micromeria douglasii* Benth.

Common Names ▶ Indian mint, Oregon tea; *German*: Kaugummipflanze; *Spanish*: yerba buena

Usage ▶ flavoring

Parts Used ▶ leaf, herb

Distribution ▶ USA

Hoppe 2, 1977; Small 1997

Satureja grandiflora (L.) Scheele

➤ *Calaminthe grandiflora* (L.) Moench

Satureja hortensis L.

Synonyms ▶ *Satureja officinarum* Crantz, *Satureja viminea* Burm.

Common Names ▶ savory, garden savory, summer savory; *Arabic*: nadgh; *Chinese*: hsiang po-ho; *Dutch*: boonenkruid; *French*: sarriette annuelle, sarriette commune, savourée, sadrée, herbe de Saint Julien; *German*: (Sommer-) Bohnenkraut, Garten-Bohnenkraut, Garten-Quendel, Aalkraut, Kölle, Pfefferkraut, Jamaican savory; *Italian*: podverella, santoreggia domestica, satureia, savoreggia; *Japanese*: kidachi hakka; *Portuguese*: segurelha, alfavaca do campo, remédio do vaqueiro; *Russian*: tschaber, tschaber sadowuj, tscheber, tschobr, scheber; *Spanish*: ajedrea, ajedrea común, ajedrea de jardín, saboujas, abroso; *Turkish*: cibreska, zater

Usage ▶ spice, condiment in meat, cheese, and vegetable; **product**: essential oil

Parts Used ▶ leaf, herb (fresh, dried or frozen)

Distribution ▶ Europe, W Asia, also cultivated

Aichele/Schwegler 4, André 1998; 1995; Berger 4, 1954; Bremness

2001; Charalambous 1994; Cheers 1997; Clair 1961; Davidson 1999; Dudtschenko et al. 1989; Eger/Heine 1998; Erhardt et al. 2002; Farrell 1985; Ghannadi 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hay/Waterman 1993; Heeger 1956; Herisset et al. 1974; Hiller/Melzig 1999; Hondelmann 2002; Hoppe 1949; Lindberg et al. 1996; Melchior/Kastner 1974; Mikus et al. 1997; Pochljobkin 1974, 1977; Pruthi 1976; Rosengarten 1969; Roth/Kormann 1997; San Martín et al. 1973; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siewek 1990; Small 1997; Stae-sche 1972; Svoboda et al. 1990; Täufel et al. 1993; Teuscher 2003; Thieme et al. 1972; Tucker 1986; Ubillos 1989; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982



Satureja hyssopifolia Bertol.

➤ *Satureja hortensis* L.



Satureja illyrica Host

➤ *Satureja montana* L.



Satureja juliana L.

➤ *Micromeria juliana* (L.) Reichenb.



Satureja montana L.

Synonyms ▶ *Micromeria montana* (L.) Rchb., *Satureja hyssopifolia* Bertol., *Satureja illyrica* Host, *Satureja subspicata* Bartl. ex Vis.

Common Names ▶ winter savory; *French*: sariette des montagnes, sariette vivace, sariette, savouree, poivre d'âne; *German*: Bergminze, Winter-Bohnenkraut, Karstbohlenkraut, Karstsaturei; *Italian*: santoreggia montana, erba peverella; *Russian*: tschaber tschimnij, al'pijskij tschaber, gornij tschaber; *Spanish*: hisopillo, saborija

Usage ▶ spice and culinary herb; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ Europe; Crime; W Asia, cultivated in S and C Europe, also in India, S Africa and N America

Aichele/Schwegler 4, 1995; Bärtels 1997; Berger 4, 1954; Bois 1934; Bremness 2001; Charalambous 1994; Cheers 1997; Clair 1961; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Konakchiev/Tsankova

2002; Lück 2004; Melchior/Kastner 1974; Mikus/Schaser 1995; Mikus et al. 1997; Milos et al. 2001; Pochljobkin 1974, 1977; Radonic/Milos 2003; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Slavkovska et al. 1997, 2001; Small 1997; Täufel et al. 1993; Teuscher 2003; Thieme et al. 1972; Tucker 1986; Ubillos 1989; Uhl 2000; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982



Satureja montana L. ssp. citriodora

Common Names ▶ Slovenia citron herb, lemon-scented winter savory; *German*: Slovenisches Zitronen-kraut

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ Slovenia and other Balkan states



Satureja montana L. ssp. montana

Common Names ▶ Croatia savory; *German*: Kroatisches Bohnenkraut

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ Croatia and other Balkan states

Radonic/Milos 2003



Satureja montana L. ssp. taurica

Common Names ▶ Crimea mountain savory; *German*: Krim-(Berg-)Bohlenkraut

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ endemic to Crimea, cultivated in Trans-caucasia

Burkill 2, 1994; Hanelt 2001; Schultze-Motel 1986



Satureja officinarum Crantz

➤ *Satureja hortensis* L.



Satureja origanoides L.

➤ *Cunila origanoides* (L.) Britt.

 Satureja pilosa var. pilosa *Velm*

Common Names ▶ Balkan savory; *German*: Balkan-Bohnenkraut

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Balkan mountains; Greece, Bulgaria

Konakchiev/Tsankova 2002

 Satureja repandra *hort.*

▶ *Satureja spicigera* (K. Koch) Boiss.

 Satureja subspicata *Bartl. ex Vis*

▶ *Satureja montana* L.

 Satureja spicigera (K. Koch) Boiss.

Synonyms ▶ *Micromeria alternipilosa* K. Koch, *Micromeria spicigera* K. Koch, *Satureja repanda* hort.

Common Names ▶ creeping savory; *German*: Ährentragendes Bohnenkraut, Ährentragender Salbei, Kriechendes Winterbohnenkraut; *Russian*: tschaber kolosonosnyj

Usage ▶ spice

Parts Used ▶ leaf, herb

Distribution ▶ NE Anatolia, W Caucasus to NW Iran

Bremness 2001; Erhardt et al. 2002; Hanelt 2001; Schultze-Motel 1986; Small 1997; Thieme et al. 1972

 Satureja subspicata *Bartl. ex Vis*.

▶ *Satureja montana* L.

 Satureja thymbra L.

Common Names ▶ Cretan savory, thryba; *Arabic*: za'atar franji, za'atar rumi; *German*: Persisches Bohnenkraut, Kretischer Thymian

Usage ▶ spice

Parts Used ▶ leaf

Distribution ▶ Mediterranean region: Greece, Sardinia, Spain, Turkey

Bärtels 1997; Bosabalidis 1990b; Capone et al. 1988; Davidson 1999; Hepper 1992; Kaniyas/Loukis 1992; Philianos et al. 1982, 1984; Small 1997; Teuscher 2003; Tucker 1986

 Satureja viminea *Burm.*

▶ *Satureja hortensis* L.

SAUSSUREA DC. - Alpine Saw Wort - Asterceae (Compositae)

 Saussurea costus (Falc.) Lipsch.

Synonyms ▶ *Saussurea lappa* (Decne.) C.B. Clarke

Common Names ▶ costus; *Chinese*: mu xiang; *German*: Gerippte Alpenscharte, Indische Costuswurzel

Usage ▶ spice

Parts Used ▶ root

Distribution ▶ N India, Kashmir, around Himalayas

Charalambous 1994; Davidson 1999; Erhardt et al. 2002; Hepper 1992; Hiller/Melzig 1999; Schultze-Motel 1986; Turora et al. 1987; Uphof 1968; Zeven/de Wet 1982

 Saussurea lappa (Decne.) C.B. Clarke

▶ *Saussurea costus* (Falc.) Lipsch.

 Scandix cerefolium L.

▶ *Anthriscus cerefolium* (L.) G.F. Hoffm.

 Scandix odorata L.

▶ *Myrrhis odorata* (L.) Scop.

SCHEFFLARIA J.R. Forst. et G. Forst.f. - Umbrella - Araliaceae

Schefflaria aromatica (Miq.) Harms

Synonyms ► *Heptapleurum aromaticum* Seem.

Common Names ► linkersap; *German*: Aromatische Schefflarie, Duft-Schefflarie, Aromatische Strahlenaralie; *Javanese*: djangjorang, klanting, sahang

Usage ► pot-herb

Parts Used ► leaf

Distribution ► Indonesia: Java

Hanelt 2001; Ochse/van den Brink 1931; Schultze-Motel 1986; Seidemann 1993; Uphof 1968

Schefflaria venulosa (Wight et Arn.) Harms

Synonyms ► *Heptapleurum venulosum* Seem.

Common Names ► *German*: Geäderte Schefflarie; *Hindi*: karbot-sermul, kath-semul, kur-semul

Usage ► pot-herb

Parts Used ► herb

Distribution ► India

Burkill 1972; Erhardt et al. 2002; Wealth of India 9, 1972



■ *Schinus molle*, fruiting

German: Mollefrucht, Mollesaar, Peruanischer Pfeffer, Rosa Pfeffer, Schinuspfeffer; *Italian*: false peper; *Peruvian*: mulli, uchu; *Portuguese*: aroeira, aroeirinha, aroeira-mansa; *Russian*: schinus; *Spanish*: aguaribai, molle, pimientero falso, pirul

Usage ► spice

Parts Used ► fruit

Distribution ► tropical S and C America, especially Brazil, native in Mediterranean regions and tropical countries, e.g. S Africa, cultivated in W Africa

Note ► Colorful pepper (colored pepper, *French*: de couleurs poivre, *German*: Bunter Pfeffer) are a mixing of black, white and pink pepper.

SCHINUS L. - Peppertree - Anacardiaceae

Schinus areira L.

► *Schinus molle* L. var. *areira* (L.) DC.

Schinus molle L. ■

Synonyms ► *Schinus areira* L. var. *areira* (L.) DC.

Common Names ► „Californian“ pepper, Peruvian pepper, Peruvian mastic tree, pink peppercorn; *Brazil* (*Portuguese*): árbol de la pimenta, aroeira, aroeira periquita, aroeira salso, corneita, pimenteiro; *French*: moleé de jardins, mollé, poivrier d'Amérique, poivrier du Pérou, faux-poivrier;

Bärtels 1997; Bernard/Wrolstad 1963; Bernhard et al. 1983; Bois 1934; Charalambous 1994; Cheers 1997; Chialvi 1990; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Kramer 1957; Lorenzi 1992; Melchior/Kastner 1974; Mors et al. 2000; Norman 1991; Pieribattesti et al. 1981; Pozzo-Balbi et al. 1978; Rättsch 1998; Schröder 1991; Schrutka-Rechtenstamm et al. 1988; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siewek 1990; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Usher 1974; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982

 Schinus terebinthifolius *Raddi*

Common Names ▶ Brazilian pepper, Christmas berry, Floriday holly, pink berry, pink pepper, red pepper; *French*: encens, baies roses de Bourbon, poivrier rose, sorbier, faux poivrier; *German*: Brasilianischer Pfeffer, Rosapfeffer, Turbitobaum; *Portuguese*: aroeira do brejo, aroeira do campo, aroreira do sertao, aroreira mansa, aroreira negra, aroeira precoce, terbinto; *Spanish*: copal, pimienta de Brazil

Usage ▶ sometimes equivalent to black pepper

Parts Used ▶ fruit

Distribution ▶ tropical C and S America, native in Mediterranean regions and tropical countries

Note ▶ The fruits have a skin stimulating effect (watch out!).

Bärtels 1997; Bauer/Silva 1973; Campello/Marsaioli 1974, 1975; Cheers 1997; Davidson 1999; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Gurib-Fakim/Brendler 2004; Hanelt 2001; Hiller/Melzig 1999; Kaistha/Kier 1962; Lloyd et al. 1977; Lorenzi 1992; McNavy Wood 2003; Morris/Mackley 1999; Mors et al. 2000; Schrutka-Rechtenstamm et al. 1988; Schwenker/Skopp 1987; Seidemann 1993c; Skopp/Schwenker 1986; Skopp et al. 1987; Stahl 1982; Stahl et al. 1983; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Usher 1974; Wiersema/León 1999

SCHISANDRA Michx. - Schisandra - Schisandraceae

 Schisandra chinensis (*Turcz.*) *Baill.*

Synonyms ▶ *Kadsura chinensis* Turcz., *Maximowiczia chinensis* (Turcz.) Rupr.

Common Names ▶ Chinese magnolia vine, five-flavor fruit; *Chinese*: wu wei tzu; *German*: Chinesische Zitrone, Chinesische Limone, Chinesisches Spaltkörbchen; *Japanese*: chosen gmiski; *Korean*: omi-janamu; *Russian*: limonnik kitajskij

Usage ▶ condiment; **product**: essential oil (bark)

Parts Used ▶ fruit, bark

Distribution ▶ China, E Asia, Japan, Russia (Amur region, Sakhalin), N Korea, Japan

Note ▶ The grated bark has a lemon odor with citral as a main constituent in the essential oil.

Berger 3, 1952; Dudtschenko et al. 1989; Erhardt et al. 2002; Hag-

er 5, 1993; Hammer et al. 1997; Hiller/Melzig 1999; Kedzia 2002; Kump 2001; NICPBP 1987; Schultze-Motel 1986; Slanina et al. 1997; Turora et al. 1987; Wiersema/León 1999

 Schoenoprasum longifolium *Kunth*

▶ *Allium kunthii* G. Don

 Sclarea aethiopis (*L.*) *Mill.*

▶ *Salvia aethiopis* L.

 Sclarea vulgaris *Mill.*

▶ *Salvia sclarea* L.

SCORODOPHLOEUS Harms - Caesalpiniaceae (Leguminosae)

 Scorodophloeus zenkeri *Harms*

Common Names ▶ *Cameroon*: bobombi, essoun, olim, yomi; *Zaire*: bofidji, monajembe

Usage ▶ condiment

Parts Used ▶ bark

Distribution ▶ tropical Africa: Cameroon, Congo, Gabun, Zaire

Note ▶ The tree, especially the bark, has a garlic-like odor.

Burkill 3, 1995; Kouokam et al. 2002; Neuwinger 1999; Uphof 1968

SCYPHOCEPHALIUM Warb. - Myristicaceae

 Scyphocephalum mannii (*Benth.*) *Warb.*

Common Names ▶ *German*: Mann'sche Muskatnuss

Usage ▶ spice, like nutmeg (locally)

Parts Used ▶ fruit, seed

Distribution ▶ W Africa: Nigeria, Cameroon, Gabun

Burkill 4, 1997; Neuwinger 1999; Warburg 1897

 Scyphocephalum ochocoa Warb.

Common Names ▶ ochoco nut(meg); *Cameroon*: is-sombo, osoko, sokwe, tsisombo; *German*: Ochoco (Muskat)nuss

Usage ▶ spice, like nutmeg (locally)

Parts Used ▶ seed

Distribution ▶ tropical Africa Cameroon, Gabun

Neuwinger 1999; Uphof 1968; Warburg 1897

SECURINEGA Comm. ex Juss. - Euphorbiaceae

 Securinega leucopyrus (Willd.) Muell. Arg.

Synonyms ▶ *Flueggea leucopyrus* Willd.

Common Names ▶ *Hindi*: ainta, bilchuli, hartho, shinwi, tella-pulugudu, vellaippuanji, vorepuvan

Usage ▶ pot-herb (in India)

Parts Used ▶ leaf

Distribution ▶ NW India

Arora/Pandey 1996; Hanelt 2001; Schultze-Motel 1986; Wealth of India 9, 1972

SEDUM L. - Stonecrop - Crassulaceae

 Sedum acre L.

Synonyms ▶ *Sedum ukraineae* hort.

Common Names ▶ goldmoss stonecrop, mossy stonecrop, wall pepper; *French*: orpin âcre, pain d'oiseau, poivre des murailles; *German*: Fetthenne, Scharfer Mauerpfeffer, Steinpfeffer, Vogelbrot; *Russian*: otschitok edkij

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe to W Siberia, native in N America

Berger 4, 1954; Erhardt et al. 2002; Hiller/Melzig 1999; Hoppe 1949; Schönfelder 2001; Wiersema/León 1999

 Sedum album L.

Common Names ▶ white stonecrop; *German*: Weißer Mauerpfeffer

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Caucasus, Turkey, Lebanon, Iran, NW Africa, Libya

Erhardt et al. 2002; Fleischhauer 2003; Schnelle 1999

 Sedum Alpestre Vill.

Common Names ▶ alpine stonecrop; *German*: Alpen-Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Turkey

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999; Schönfelder 2001;

 Sedum annuum L.

Common Names ▶ annual stonecrop; *German*: Einjährige Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Turkey, Caucasus, Iran, Greenland

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999

 Sedum atratum L.

Common Names ▶ blackish stonecrop, tawny stonecrop; *German*: Schwärzliche Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999

 Sedum cepaea L.

Common Names ▶ panicle stonecrop; *German*: Rispen-Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Turkey, Syria, Algeria, Tunisia, Libya, native in the Netherlands, Germany

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999

 Sedum dasyphyllum L.

Common Names ▶ thick leaved stonecrop; *French*: orpin à feuilles glanduleuses; *German*: Dickblättrige Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Romania, Turkey, NW Africa; native in Denmark,

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999

 Sedum hispanicum L.

Common Names ▶ Spain stonecrop; *German*: Spanische Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Turkey, Lebanon, Palestine, Caucasus, N Iran; native in Sweden

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999

 Sedum reflexum L.

Synonyms ▶ *Sedum rupestre* L.

Common Names ▶ Jenny stonecrop, rock stonecrop, reflexed stonetroop, wall pepper, white stonecrop; *French*: orpin, orpin jaune, orpin réfléchie, trippe-madame, trique madame; *German*: Felsen-Fetthenne, Felsen-Mauerpfeffer, Tripmadam; *Italian*: erba grassa, erba pignola, sopravivolo dei muri; *Russian*: sajetsch'ja kanista, otschitok, otschitok otognutyi; *Spanish*: fabacrasa reflejada, siempreviva picante

Usage ▶ pot-herb to flavor soups and salads

Parts Used ▶ fresh herb

Distribution ▶ N, C Europe, Caucasus, native elsewhere

Aichele/Schwegler 2, 1994; Berger 4, 1954; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Körber-Grohne 1989; Loch 1993; Schnelle 1999; Schönfelder 2001; Schultze-Motel 1986; Stephenson 1994; Stobart 1978; Wiersema/León 1999; Zeven/de Wet 1982

 Sedum rubens L.

Common Names ▶ reddish stonecrop; *German*: Rötliche Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Crimea, Canary Islands, Turkey, Levante, N Iran, NW Africa, Libya

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999

 Sedum rupestre L.

▶ *Sedum reflexum* L.

 Sedum sexangulare L.

Common Names ▶ *French*: orpin de Boulogne; *German*: Goldmoos-Fetthenne; Milder Mauerpfeffer

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, except Iberia, Balkan Peninsula

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993; Machatschek 1999; Schnelle 1999

 Sedum spurium M. Bieb.

Common Names ▶ two row stonecrop; *French*: orpin bâ-tard; *German*: Kaukasus-Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Caucasus, Turkey, N Iran, native in Europe

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999; Schnelle 1999

Sedum telephium L.

Common Names ▶ *German*: Berg-Fetthenne, Purpur-Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe, Turkey; native in N America

Erhardt et al. 2002; Fleischhauer 2003; Loch 1993; Machatschek 1999; Schnelle 1999; Schönfelder 2001

Sedum villosum L.

Common Names ▶ *German*: Behaarte Fetthenne, Sumpf-Fetthenne

Usage ▶ pot-herb

Parts Used ▶ fresh herb

Distribution ▶ Europe

Erhardt et al. 2002; Fleischhauer 2003; Machatschek 1999

Sedum ukraineae hort.

▶ *Sedum acre* L.

Selinum palustre L.

▶ *Peucedanum palustre* (L.) Moench.

Selinum sylvestre L.

▶ *Peucedanum palustre* (L.) Moench.

Selinum pastinaca Crantz

▶ *Pastinaca sativa* L.

Selinum monnieri L.

▶ *Cnidium monnieri* (L.) Cuss. ex Juss.

SENNA Mill. - Senna - Caesalpinaceae (Leguminosae)

Senna obtusifolia (L.) Irwin et Barmby

Synonyms ▶ *Cassia obtusifolia* L., *Senna toroides* Roxb.

Common Names ▶ foetid cassia, sicklepod; *French*: casse puante, cassia fétide; *German*: Stumpflättrige Senna; *India*: chakunota; *Javanese*: ketepeng

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ W Africa: Ghana, Liberia, Niger, Nigeria, Senegal; Mauritania; China cultivated

Note ▶ Fermented leaf is added to food as a condiment.

Burkill 3, 1995; Hager 4, 1992; Hanelt 2001; Irvine 1948

Serephidium balchanorum (Krasch) Polj.

▶ *Artemisia balchanorum* Krasch

Sertula alba O. Kuntze

▶ *Melilotus albus* Medik.

Sertula arvensis O. Kuntze

▶ *Melilotus officinalis* Lam.

SESAMUM L. - Sesame - Pedaliaceae

Sesamum alatum Thonn.

Synonyms ▶ *Sesamum capense* Burm.f.

Common Names ▶ *German*: Geflügelter Sesam; *Nigerian*: barewa, ri-din, *Sudan*: tacoutta

Usage ▶ pot-herb

Parts Used ▶ dry plant

Distribution ▶ W Sudan, Ethiopia, E Africa, southern Africa

Burkill 4, 1997; Erhardt et al. 2002; Schultze-Motel 1986; Uphof 1968; Zeven/de Wet 1982

 **Sesamum brasiliense** Vell.

➤ *Sesamum indicum* L.

 **Sesamum carpanse** Burm.f.

➤ *Sesamum alatum* Thonn.

 **Sesamum indicum** L. 

Synonyms ▶ *Anthadenia sesamoides* Lem., *Sesamum brasiliense* Vell., *Sesamum luteum* Retz., *Sesamum oleiferum* Moench, *Sesamum orientale* L., *Volkameria orientalis* O. Kuntze

Common Names ▶ sesame, beniseed, gingelly seed, oriental sesame, Indian sesame; *Arabic*: sem sum, simsim jelilan; *Chinese*: ching jang, hei, hu ma, zhi ma; *Dutch*: sesamzaad; *French*: sésame, till; *German*: Sesam, Indischer Sesam, Orientalischer Sesam; *India*: beni, gingelly, til; *Indonesian*: ijan; *Italian*: sesamo; *Japanese*: goma, uguma; *Korean*: hamkkae; *Portuguese*: gergelim; *Russian*: kunschut; *Slovenian*: sezam; *Spanish*: sésamo, ajonjolí; *Thai*: ngaa

Usage ▶ spice; foundation of many condiments

Parts Used ▶ seed

Distribution ▶ possible origin Ethiopia or India; widely cultivated: Middle East, China, Japan, Afghanistan, Asia minor and Iran, Turkey, Egypt, Mediterranean. area, E Africa

Arora/Pandey 1996; Bahkali et al. 1998; Bendel 2002; Bois 1934; Burkill 4, 1997; Charalambous 1994; Cheers 1997; Craze 2002; Davidson 1999; El-Tinay et al. 1976; Erhardt et al. 2002; Duke et al. 2003; Farrell 1985; Hanelt 2001; Hepper 1992; Hiller/Melzig 1999; jomah et al. 2000; Johnson et al. 1979; Kottegoda 1994; Leung 1991; Linke 1983; Lyon 1972; Morris/Mackley 1999; Nakaumara et al. 1989; Nayar/Mehra 1970; Norman 1991; Rosengarten 1969; Schenck/Naundorf 1966; Schieberle 1996; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Soliman et al. 1975; Täufel et al.



 **Sesamum indicum**, flowering

1993; Teuscher 2003; Uhl 2000; Uphof 1968; Villamar et al. 1994; Weiss 1971; Westermann 1909; Wiersema/León 1999; Yen 1986; Yermanos et al. 1972; Yoshida 1994; Zeven/de Wet 1982

 **Sesamum luteum** Retz.

➤ *Sesamum indicum* L.

 **Sesamum oleiferum** Moench

➤ *Sesamum indicum* L.

 **Sesamum orientale** L.

➤ *Sesamum indicum* L.

 **Sesban grandiflora** Poir.

➤ *Sesbania grandiflora* (L.) Pers.

SESBANIA Scop. - Fabaceae (Leguminosae)

Sesbania coccinera Pers.

➤ *Sesbania grandiflora* (L.) Pers.

Sesbania grandiflora (L.) Pers.

Synonyms ▶ *Robinia grandiflora* L., *Sesban grandiflora* Poir., *Sesbania coccinea* Pers.

Common Names ▶ pea tree, scarlet wisteria, vegetable humming bird, West Indian pea; *French*: fagotier; *German*: Großblütige Sesbanie; *Hindi*: agasti, basna; *India*: agati, males, turi; *Malaysian*: getih, kachana tur, kelur, turi; *Pilipino*: kambang-turi, katudai, kature *Thai*: khae baan tveri

Usage ▶ pot-herb

Parts Used ▶ leaf, green pod

Distribution ▶ India, Sri Lanka, Mauritius, SE Asia, N Australia, also cultivated in the Tropics of the Old and New Worlds

Agarwal 1986; Hanelt 2001; Irvine 1961; Mansfeld 1962; Schultze-Motel 1986; Uphof 1968; Wealth of India 9, 1972

Sesbania tetraptera Hochst. Baker

Usage ▶ pot-herb

Parts Used ▶ leaf

Distribution ▶ tropical Africa

Uphof 1968

Seseli amomum Scop.

➤ *Sison amomum* L.

Seseli macrophyllum Regel et Schmalh.

➤ *Mediasia macrophylla* (Regel et Schmalh.) Pimenov

SILAUM Mill. - Pepper Saxifrage - Apiaceae (Umbelliferae)

Silaum silaus (L.) Schinz et Thell.

Common Names ▶ pepper saxifrage; *French*: cumin dés pres, silaüs; *German*: Wiesensilge

Usage ▶ pot-herb

Parts Used ▶ fresh leaf

Distribution ▶ Europe, W Siberia

Erhardt et al. 2002; Fleischhauer 2003; Schnelle 1999

SILENE L. - Campion, Catchfly - Caryophyllaceae

Silene inflata Sm.

➤ *Silene vulgaris* (Moench) Garcke

Silene latifolia (Mill.) Rendle et Britt.

➤ *Silene vulgaris* (Moench) Garcke

Silene vulgaris (Moench) Garcke

Synonyms ▶ *Silene inflata* Sm., *Silene latifolia* (Mill.) Rendle et Briitt.

Common Names ▶ bladder champion, blue root; *German*: Breitblättrige Lichtnelke, Gemeiner Traubenkropf; *Italian*: bubbolini, strigoli; *Russian*: smolewka chlopuschka, smolewka schirokolistnaja

Usage ▶ pot-herb (rarely)

Parts Used ▶ leaf

Distribution ▶ S Europe, Turkey, NW Africa

Hanelt 2001; Uphof 1968

Siler montanum Crantz

➤ *Laserpitium silea* L.

 Siler trilobium (L.) Crantz

➤ *Laserpitium trilobium* (L.) Borkh.

Silybum Vaill. ex Adans. - Milk Thistle - Asteraceae (Compositae)
 Silybum marianum (L.) Gaertn.

Synonyms ▶ *Carduus marianus* L.

Common Names ▶ milk thistle, hole thistle, our lady's thistle, source of silymarin, St. Mary's thistle; *Ara-bic*: shouk el-gamal, houk sinnari; *Dutch*: mariadistel; *French*: chardon Marie, silybe de Marie; *German*: Mariendistel; *Italian*: cardo mariano; *Korean*: ollukonggongkhwi; *Portuguese*: cardo leiteiro, cardo de Maria, cardosanto; *Russian*: os-tropëstro, rastoropscha; *Spanish*: cardo lechero, cardo mariano, cardo de la alameda

Usage ▶ spice, for herb spirits, pot-herb for salads (India)

Parts Used ▶ seed, leaf

Distribution ▶ native in SE and SW Europe, Near East; N Africa, widely native e.g. S Brazil

Aichele/Schwergel 4, 1995; Arora/Pandey 1996; Bärtels 1997; Braatz/Schneider 1976; Carrier et al. 2002; Cheers 1997; Czabajska et al. 1993; Davidson 1999; Diener 1994; Erhardt et al. 2002; Fleischhauer 2003; Hamid et al. 1983; Heeger 1956; Hepper 1992; Hetz et al. 1995; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Leng-Peschlow/Strenge-1991; Merfort/Willuhn 1985; Mors et al. 2000; Pschyrembel 1998; Rättsch 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Täufel et al. 1993; Villamar et al. 1994; Wiersema/León 1999; Wiesel 1993; Wyk et al. 2004; Zaleck/Kordana 1993; Zeven/de Wet 1982

SIMABA Aubl. - Simaroubiaceae
 Simaba paraensis Ducke

Usage ▶ spice, rarely (substitute for *Quassia amara* L.)

Parts Used ▶ bark

Distribution ▶ Brazil

Uphof 1968

SIMAROUBA Aubl. - Simaroubaceae
 Simarouba amara Aubl.

Synonyms ▶ *Simarouba glauca* Hemsley, *Simarouba officinalis* DC.

Common Names ▶ Jamaica bark, simaruba, *Brazil (Portuguese)*: marupá, marupaís, marupaíba, paraíba, pe-deperdiz, simaruba; *German*: Bittere Ruhrrinde;

Usage ▶ spice (rarely), for bitter liqueurs etc.

Parts Used ▶ root bark

Distribution ▶ northern S America, Antilles; cultivated by the Kayopó Indians in Brazil. Caampo Cerado

Hanelt 2001; Hiller/Melzig 1999; Lorenzi 1992; Mors et al. 2000; Polonsky et al. 1984; Uphof 1968; Usher 1974

 Simarouba glauca Hmsley

➤ *Simarouba amara* Aubl.

 Simarouba officinalis DC.

➤ *Simarouba amara* Aubl.

 Simarouba versicolor St.-Hil.

Common Names ▶ *Brazil (Portuguese)*: marupaís, mata-barata, paraíba, pau-paraíba

Usage ▶ spice (rarely), for bitter liqueurs

Parts Used ▶ root bark

Distribution ▶ Brazil

Mors et al. 2000

SINAPIS L. Mustard - Brassicaceae (Cruciferae)

Sinapis alba L.

Synonyms ► *Brassica hirta* Moench;

Common Names ► white mustard, yellow mustard, mustard; *Arabic*: khardal; *Chinese*: hu chieh, pai chieh; *Dutch*: mosterd; *French*: moutarde blanche, moutarde jaune; *German*: Englischer Senf, Gelb-Senf, Gewürz-Senf, Weißer Senf, Mostardkorn; *Hindi*: sufed rai; *Italian*: senape bianca; *Japanese*: shiro karashi; *Laos*: sômez sein; *Pilipino*: mustasa; *Portuguese*: mostarda branca; *Russian*: gortschiza belaja; *Slovenian*: biela horcica; *Spanish*: mostaza blanca

Usage ► spice; product of mustard and essential oil

Parts Used ► seed

Distribution ► widely native, perhaps in Mediterranean regions and elsewhere in Eurasia

Note ► Trade sorts: Holland mustard, *German*: Holländischer Senf (*Sinapis alba* L. var. *bataviea* Jessen (Holland mustard); Rumänischer (Gelb-)Senf (*Sinapis alba* L. var. *melanosperma* Alef.).

Aichele/Schwegler 3, 1995; Bärtels 1997; Bois 1934; Crasselt 1950; Craze 2002; Cui et al. 1992; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Gmelin 1969; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Heeger 1956; Hermey/Ludi 1994; Hiller/Melzig 1999; Hohmann et al. 2002; Hondelmann 2002; Hoppe 1949; Leung 1991; NICPBP 1987; Psyhyrembel 1998; Rosengarten 1969; Schönfelder 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shanakaranarayana et al. 1971, 1972; Siebert 1990; Small 1997; Staesche 1972; Taintner/Grenis 1993; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uhl 2000; Uphof 1968; Vos/Blijleven 1988; Wiersema/León 1999; Zeven/de Wet 1982

Sinapis alba L. ssp. *dissecta* (Lag.) Bonn.

► *Sinapis dissecta* Lag.

Sinapis arvensis L.

Common Names ► charlock, field mustard, California rape, wild mustard; *French*: moutarde des champs, moutarde sauvage, sanve, sénevé; *German*: Ackersenf; *Italian*: senape, senape selvatica, serap-



 *Sinapis alba*, flowering

ino; *Portuguese*: moustarda dos campos; *Russian*: gortschiza polewaja; *Spanish*: mostaza de los campos, mostaza silvestre

Usage ► spice

Parts Used ► seed

Distribution ► Europe, N Africa, temperate Asia, India, widely native, probably native only in the Mediterranean region

Aichele/Schwegler 3, 1995; Bärtels 1997; Bois 1934; Dudtschenko et al. 1989; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Hepper 1992; Schnelle 1999; Schultze-Motel 1986; Täufel et al. 1993; Tucker 186; Wiersema/León 1999

Sinapis cernua Thunb.

► *Brassica cernua* (Thunb.) Forb. et Hemsl.

Sinapis dissecta Lag.

Synonyms ► *Sinapis alba* L. ssp. *dissecta* (Lag.) Bonn.

Common Names ▶ *German*: Gardalsenf, Zerschlitster Senf

Usage ▶ spice (like)

Parts Used ▶ seed

Distribution ▶ from the Mediterranean areas up to the Ukraine

Note ▶ The plant can be found as a weed in flax fields.

Hanelt 2001; Heeger 1956; Melchior/Kastner 1974; Seidemann 1993c; Seidemann/Siebert 1987

Sinapis juncea L.

➤ *Brassica juncea* (L.) Czern.

Sinapis nigra L.

➤ *Brassica nigra* (L.) Koch

SIPHONCHILUS J.W. Wood et Franks - Zingiberaceae

Siphonochilus aethiopicus (Schweinf.) B.L. Burt

Synonyms ▶ *Cienskowskia aethiopica* Schweinf., *Kaempferia aethiopica* (Schweinf.) Benth., *Siphonochilus natalensis* (Schlitt. et K. Schum.) Wood et Franks

Common Names ▶ African ginger, wild ginger; *French*: gingembre Africaine; *German*: Afrikanischer Ingwer, Wilder Ingwer; *Italian*: zenzero Africano; *Zulu*: isiphepketo, indungulo

Usage ▶ spice, flavoring

Parts Used ▶ rhizome, root

Distribution ▶ tropical Africa: Senegal, Niger to S Africa, E Africa

Note ▶ The rhizomes are slightly ginger in taste.

Burkill 5, 2000; Hanelt 2001; Tanaka/Nakao 1976; Uphof 1976

Silphonochiles natalensis (Schltr. et K. Schum.) Wood et Franks

➤ *Silphonochilus aethiopicus* (Schweinf.) B.L. Burt.

Sirium myrtifolium L.

➤ *Santalum album* L.

SISON L. - Stone Parsley - Apiaceae (Umbelliferae)

Sison amomum L.

Synonyms ▶ *Cicuta amomum* Crantz; *Seseli amomum* Scop.; *Sium amomum* Roth; *Sium aromaticum* Lam.

Common Names ▶ hedge sison, honewort, stone parsley; *German*: Gewürzdohle, Herrnkümmel, Würzsilge; *Russian*: sison

Usage ▶ flavoring

Parts Used ▶ seed

Distribution ▶ S, SW Europe, Turkey, Caucasus

Erhardt 2002; Uphof 1968

Sisymbrium alliaria Scop.

➤ *Alliaria petiolata* (M. Bieb.) Cavara et Grande

Sisymbrium barbarea (L.) Cr.

➤ *Barbarea vulgaris* R.Br.

Sisymbrium nasturtium Thunb.

➤ *Nasturtium officinale* R.Br.

Sium amomum Roth.

➤ *Sison amomum* L.

***Sium aromaticum* Lam.**➤ *Sison amomum* L.**SIUM L. - Water Parsnip -
Apiaceae (Umbelliferae)*****Sium cicutaefolium* Schrank.****Synonyms** ▶ *Sium suave* Walter**Common Names** ▶ water parsnip; *German*: Wasserpetersilie; Wasserschierlingblättriger Merk**Usage** ▶ flavoring**Parts Used** ▶ root, leaf (relish)**Distribution** ▶ Canada, E, N America

Hanelt 2001; Uphof 1968; Wiersema/León 1999

***Sium javanicum* L. et *Sium laciniatum* Bl.**➤ *Oenanthera javanica* (Bl.) DC.***Sium suave* Walter**➤ *Sium cicutaefolium* Schrank.**SKIMMIA Thunb. - Skimmia -
Rutaceae*****Skimmia arborescens* T. Anders****Synonyms** ▶ *Skimmia laureola* (DC.) Siebold et Zucc. ex Gambl.**Common Names** ▶ *German*: Baumartige Skimmie, Lorbeer-Skimmie; *India*: barru, gurl pata, nehar**Usage** ▶ flavoring (in curries); **product**: essential oil**Parts Used** ▶ leaf**Distribution** ▶ Nepal, Himalayas, Maynmar, China

Arora/Padney 1996

**SMILACINA Desf. – False Salomon's
Seal - Convallariaceae*****Smilacina oleracea* Hook. f.****Common Names** ▶ false Salomon's seal; *French*: petit smilax; *German*: Gemüse-Schattenblume, Ölduftsiegel**Usage** ▶ pot-herb**Parts Used** ▶ herb**Distribution** ▶ E Himalayas, from Nepal to Assam

Arora/Pandey 1996; Wealth of India 9, 1972

**SMILAX L. - Sarsaparilla -
Smilacaceae*****Smilax aristolochiifolia* Mill.****Synonyms** ▶ *Smilax medica* Schlecht. et Cham.**Common Names** ▶ Gray sarsaparilla, Mexican sarsaparilla, Veracruz sarsaparilla; *French*: salsepareille, seron épineux; *German*: Mexikanische Sarsaparille, Osterluzeiblättrige Stechwinde; *Italian*: salsaparglia smilace; *Russian*: sarsaparil'; *Spanish*: méjica zarzaparilla**Usage** ▶ spice, flavoring (bark)**Parts Used** ▶ rhizome, root, bark**Distribution** ▶ C Mexico, Meso-America**Note** ▶ Mexican sarsaparilla extracts have recently been used in baked goods, beverages (root beer), candies, and desserts.

Bown 1995; Hanelt 2001; Hiller/Melzig 1999; Hobbs 1988; Newall et al. 1996; Schultze-Motel 1986; Uphof 1968; Villamar et al. 1994; Wealth of India 9, 1972; Wiersema/León 1999; Wyk et al. 2004

***Smilax medica* Schlecht. et Cham.**➤ *Smilax aristolochiifolia* Mill.

SMYRNIUM L. - Alexanders - Apiaceae (Umbelliferae)

Smyrniolus atrum L.

Common Names ▶ Alexanders, Alexander's plant, Alexandrian parsley, black lovage; *French*: maceron, ombrelle jaune; *German*: Alisander, (Schwarze) Gelbdolde, Pferdepeppich, Schwarzer Liebstöckel; *Italian*: erba smirnio; *Russian*: smirnjaja; *Spanish*: esmirnio

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ SW Europe, Algeria, Canary Islands native in S England (by Alexander the Great), Turkey

Note ▶ The seeds were used as a pepper substitute in the Middle Ages and in times of shortage. The plant was used in the 19. Century as celery (*Apium graveolens* L.).

Bärtels 1997; Bremness 2001; Davidson 1999; Erhardt et al. 2001; Small 1997; Stobart 1978; Täufel et al. 1993; Uphof 1968; Zeven/de Wet 1982

Smyrniolus perfoliatum L.

Common Names ▶ biennial Alexanders; *German*: Stengelumfassende Gelbdolde

Usage ▶ spice (rarely)

Parts Used ▶ seed

Distribution ▶ Europe: Iberia, France, Italian Peninsula, Czech Republic; E, C Europe: Balkan Peninsula, Romania; Crimea, Turkey, Syria, Caucasus; native in British Isles, Denmark, C Europe

Erhardt et al. 2002; Small 1997

Glycine hispida (Moench) Maxim

▶ *Glycine max* (L.) Merr.

SOLANUM L. - Nightshade - Solanaceae

Solanum aethiopicum L.

Synonyms ▶ *Lycopersicon aethiopicum* (L.) Mill., *Solanum gilo* Raddi

Common Names ▶ bitter berry, golden apple, scarlet egg plant, 'tomato of the Jews of Constantinople'; *Arabic*: el-tofah, el-dahabi; *French*: aubergine amère, aubergine gboma, tomate amère; *German*: Äthiopischer Nachtschatten, Äthiopische Tomate; *Nigerian*: osun

Usage ▶ pot-herb, bitter fruits as spice for sauces and soups

Parts Used ▶ leaf, fruit

Distribution ▶ tropical Africa: Ethiopia, Senegal, Sudan, Nigeria, tropical Asia

Burkill 5, 2000; Davidson 1999; Erhardt et al. 2002; Hanelt 2001; Hunziker 2001; Neuwinger 1999; Schultze-Motel 1986; Tindall 1983; Uphof 1968; Zeven/de Wet 1982

Solanum anguivi Lam.

Common Names ▶ children's tomato; *German*: Kinder-Tomate

Usage ▶ condiment for soups and sauces

Parts Used ▶ fruit

Distribution ▶ wild in tropical Africa: The Gambia, Guinea, Ivory Coast, Liberia, Nigeria, Togo; India, Sri Lanka, SE Asia

Burkill 5, 2000; Dalziel 1937; Hanelt 2001; Hunziker 2001; Irvine 1948; Schultze-Motel 1986

Solanum anomalum Thonn.

Synonyms ▶ *Solanum manni* Wright var. *compactum* Wright

Common Names ▶ children's tomato; *German*: Kinder-Tomate, Ungewöhnlicher Nachtschatten

Usage ▶ condiment (for sauces and soups), flavoring, added to stews

Parts Used ▶ herb, fruit

Distribution ▶ tropical Africa, also cultivated

Note ▶ The little red fruits have a bitter taste.

Hanelt 2001; Hunziker 2001; Schmelzer 1991; Schultze-Motel 1986; Uphof 1968; Zeven/de Wet 1982



Solanum anthrophagorum Seem.

Synonyms ▶ *Solanum uporo* Dunal

Common Names ▶ Cannibal's tomato; *Fiji*: boro dina;
German: Kannibalen-Tomate, Menschenfresser-Tomate

Usage ▶ spice (sporadically)

Parts Used ▶ fruit

Distribution ▶ Pacific Islands: Fiji

Hanelt 2001; Hunziker 2001; Schenck/Naundorf 1966



Solanum dasyphyllum Schum. et Thonn.

Common Names ▶ raw nightshade; *German*: Rauher Nachtschatten

Usage ▶ flavoring, added to stews

Parts Used ▶ fruit

Distribution ▶ W Africa to Ethiopia and to S Africa

Erhardt et al. 2002; Hanelt 2001; Hunziker 2001



Solanum distichium Schum. et Thonn.

Common Names ▶ *German*: Gefüllter Nachtschatten

Usage ▶ flavoring (bitter taste), added to stews and for soups, sauces

Parts Used ▶ fruit

Distribution ▶ W Africa: Ghana, Nigeria and Uganda

Hanelt 2001; Schultze-Motel 1986



Solanum erianthum D. Don

Common Names ▶ big eggplant, China flower leaf, mullein nightshade, potato tree, tobacco tree; *Chinese*: jia yan ye shu; *German*: Große Eierpflanze, Wollblütiger Nachtschatten; *Japanese*: tabakugii, yan-baru-nasubi; *Sanskrit*: vidari; *Vietnamese*: ngoi, ca hoi, co sa lang

Usage ▶ flavoring, added to stews

Parts Used ▶ fruit

Distribution ▶ Mexico, S and C USA, Caribbean, Meso-America, native in India, China, Malaysia and Australia

Erhardt et al. 2002; Hanelt 2001; Hunziker 2001; Schultze-Motel 1986; Wealth of India 9, 1972; Wiersma/León 1999



Solanum gilo Raddi

▶ *Solanum aethiopicum* L.



Solanum lycopersicum L.

▶ *Lycopersicon esculentum* Mill.



Solanum macrocarpon L. ■

Common Names ▶ African eggplant, native eggplant, gboma egg plant; *Arabic*: bazengan africy; *Chinese*: fei zhou qie; *Dutch*: Afrikaanse aubergine; *French*: aubergine indigène, fausse tomate, gboma, grosse angive; *German*: Afrikanische Aubergine, Großfrüchtige Aubergine; *Indonesian*: terong; *Italian*: melanzana africana; *Portuguese*: beringela africana; *Spanish*: berenjena africana

Usage ▶ pot-herb

Parts Used ▶ fresh (bitter) herb

Distribution ▶ E Africa, Madagascar, Mauritius, cultivated in Africa

Burkill 1965; Burkill 5 2000; Erhardt et al. 2002; Hanelt 2001; Hunziker 2001; Schultze-Motel 1986; Sn 1995; Seidemann 1995; Wiersma/León 1999; Zeven/de Wet 1982



Solanum manni Wright var. **compactum** Wright

▶ *Solanum anomalum* Thonn.



■ **Solanum macrocarpon**, fruiting

Solanum nigrum L.

Common Names ► black nightshade, common nightshade, garden nightshade, night morella; *Chinese*: long kui, tien chieh tzu, tien pao tsao; *French*: morelle noire; *German*: Schwarzer Nachtschatten; *Hindi*: makoy; *Indonesian*: leunca, ranti; *Italian*: solano nero; *Japanese*: inu-hôzuki, uwâguwâ kâtô; *Korean*: kamajung; *Portuguese*: erva-moura; *Sanskrit*: kâkamâici; *Spanish*: hierba mora, morella

Usage ► pot-herb

Parts Used ► leaf

Distribution ► Europe, cosmopolitical

Chauhan 1999; Erhardt 2002; Hanelt 2001; Heeger 1956; Hunziker 2001; Râtsch 1998; Schönfelder 2001; Uphof 1968;

Solanum spirale Roxb.

Common Names ► screw-shaped nightshade, coiled-flower nightshade, spiral nightshade; *Chinese*:

xuan hua qie; *German*: Schraubenförmiger Nachtschatten, Spiraliger Nachtschatten

Usage ► condiment (in Vietnam)

Parts Used ► plant

Distribution ► India, N Vietnam, Laos

Hunziker 2001; Uphof 1968

Solanum surattense Burm.f.

► *Solanum virgianum* L.

Solanum uporo Dunal

► *Solanum anthropophagorum* Seem.

Solanum xanthocarpum Schrad.

► *Solanum virginianum* L.

Solanum virginianum L.

Synonyms ► *Solanum surattense* Burm.f., *Solanum xanthocarpum* Schrad.

Common Names ► yellow berried night-shade; *German*: Gelber Nachtschatten, Virgianischer Nachtschatten; *Hindi*: choti kateri, bhataktaiya; *Sanskrit*: kantakari, duhspar'ska, ksudra

Usage ► spice for Indian curries

Parts Used ► fruit

Distribution ► Asia: Indian, Indochina, Malaysia, native elsewhere

Note ► The fruit has a bitter taste.

Burkill 5, 2000; Chauhan 1999; Hanelt 2001; Hedayatulleh 1960; Hunziker 2001; Kottegoda 1994

SOLENOSTEMON Thonn. - Painted Nettle - Lamiaceae (Labiatae)

 **Solenostemon monostachyus** (P. Beauv.) Briq.

Common Names ▶ monkey's or hausa potato; *German*: Affenkartoffel, Einährige Buntnessel

Usage ▶ pot-herb (locally)

Parts Used ▶ leaf

Distribution ▶ tropical W and C Africa

Burkill 1985; Davidson 1999; Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968

SONNERATIA L. - Sonneratiaceae (Lythraceae)

 **Sonneratia caseolaris** (L.) Engl.

Common Names ▶ red-flowered Pornupan mangrove; *German*: Käseartige Sonneratie

Usage ▶ flavoring of chutney and curries

Parts Used ▶ young fruit

Distribution ▶ Asia: Malaysia, Kalimantan, Borneo

Note ▶ The small trees common in mangrove swamps. The fruits have a cheese-like taste.

Erhardt et al. 2002; Mabberly 1997; Uphof 1968

SPARGANOPHORUS Boehm. - Asteraceae (Compositae)

 **Sparganophorus vaillantii** Crantz

Usage ▶ condiment

Parts Used ▶ leaf

Distribution ▶ tropical Africa: Nigeria, Gold Coast, Cameroon, Congo, Toga, Niam-Niam, Fernando Po, and W Indies

Hanelt 2001; Uphof 1968

 **Spartium scoparium** L.

▶ *Cytisus scoparius* (L.) Link

SPATHIPHYLLUM Schott. Peace Lily - Araceae

 **Spathiphyllum cannifolium** (Dryand.) Schott.

Common Names ▶ spatheflower; *German*: Canna-Blatt-fahne

Usage ▶ flavoring tobacco

Parts Used ▶ leaf

Distribution ▶ Caribbean, tropical S America: Guinea, Venezuela, Colombia

Note ▶ The dried leaves have the scent of vanilla.

Erhardt et al. 2002; Uphof 1968

SPHAERANTHUS L. - Asteraceae (Compositae)

 **Sphaeranthus indicus** L.

Common Names ▶ Indian globe thistle; *India*: atakka-maniyen, gorakh mundi, hapusa,

Usage ▶ pot-herb (in India)

Parts Used ▶ leaf

Distribution ▶ India, Indochina, Australia

Arora/Pandey 1996; Sharma 2003; Wiersema/León 1999

SPILANTHES Jacq. - Asteraceae (Compositae)

 **Spilanthes oleracea** L.

Synonyms ▶ *Acmella oleracea* (L.) R.K. Jansen.

Common Names ▶ Brazilian cress, para cress, toothache plant; *Dutch*: Brazil vlakbloem; *French*: spilanthe des lieux humides, cresson du Brésil, cresson du Para, *German*: Parakresse, Husarenknopf (flow-

ers); *Japanese*: hokoso; *Malaysian*: pokok getang; *Portuguese*: agrião do Brasil, agrião do mato; *Russian*: kress brasil'skij; *Spanish*: berro de Pará, chisaca;

Usage ▶ spice (in Japanese dishes), pot-herb

Parts Used ▶ herb

Distribution ▶ West Indies, Brazil, India, cultivated in Japan (only the plant cultivated)

Bois 1934; Hiller/Melzig 1999; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

Spirea ulmaria L.

➤ *Filipendula ulmarie* (L.) Maxim.

SPONDIAS L. - Mombin Plum - Anacardiaceae

Spondias acidia Bl.

Synonyms ▶ *Poupartia dulcis* Bl.

Common Names ▶ acid mombin, *German*: Saure Balsampflaume, Saure Mombinpflaume

Usage ▶ acid flavoring

Parts Used ▶ young leaf, fruit

Distribution ▶ SE Asia

Oyen/Dung 1999

Spondias amara Lamk

➤ *Spondias pinnata* (J. Koenig ex L.f.) Kurz

Spondias mangifera Willd.

➤ *Spondias pinnata* (J. Koenig ex L.f.) Kurz

Spondias malayana Kosterm.

Synonyms ▶ *Poupartia pinnata* Blanco, *Spondias wirtgenii* Hassk.

Common Names ▶ Malaysian hog, Malaysian mombin plum; *Cambodian*: puen si, phlaè, mkak préi; *German*: Malayische Mombinpflaume; *Indonesian*: kadongdong, kloncing; *Malaysian*: amra; *Pilipino*: libás

Usage ▶ acid flavoring

Parts Used ▶ young leaf, inflorescence, fruit

Distribution ▶ scattered in Malaysia, E Java

Guzman/Siemonsma 1999; Oyen/Dung 1999

Spondias novoguineensis Kosterm.

Common Names ▶ *Indonesian*: kanuris, ngaulo, uritchu

Usage ▶ acid flavoring

Parts Used ▶ fruit

Distribution ▶ Indonesia, New Guinea, Solomon Islands

Guzman/Siemonsma 1999; Oyen/Dung 1999

Spondias pinnata (J. Koenig ex L.f.) Kurz

Synonyms ▶ *Mangifera pinnata* J. Koenig ex L.f., *Spondias amara* Lambk., *Spondias mangifera* Willd.

Common Names ▶ wild mango, hog plum, yellow mombin, yellow plum; *Burmese*: gwe; *Cambodian*: mokak; *German*: Gelbe Balsampflaume, Mangopflaume, Wilder Mango; *Hindi*: amara, amna, amra; *Laos*: ko: k, ku: k; *Malaysian*: ěmrah, kedondong, memberah; *Pilipino*: libás; *Sanskrit*: amrataka; *Thai*: ma-kok

Usage ▶ spice; flavoring (flower, leaf) fruit: made into chutney, pickles

Parts Used ▶ leaf, fruit

Distribution ▶ India, Himalayas, Andaman Island, Sri Lanka, Myanmar, introduced to and native in Thailand, Malaysia, Indochina

Note ▶ The ripe fruit has an odorless acid taste.

Arora/Pandey 1996; Blancke 2000; Erhardt et al. 2002; Guzman/Siemonsma 1999; Oyen/Dung 1999; Schultze-Motel 1986; Uphof 1968; Zeven/de Wet 1982

Spondias wirtgenii Hassk.

➤ *Spondias malayana* Kosterm.

STACHYS L. - Betony, Hedge Nettle, Woundwort - Lamiaceae (Labiatae)

Stachys byzantina K. Koch

Synonyms ▶ *Stachys lanata* Jacq

Common Names ▶ lamb's ears, lamb's lugs, lamb's tails, hedge nettle, woolly betony, woolly stachys; *French*: epiaire laineuse; *German*: Woll-Ziest, 'Helen von Stein'

Usage ▶ flavoring

Parts Used ▶ leaf

Distribution ▶ Asia minor, Crimea, Caucasus, N Iran

Erhardt et al. 2002; Mirza/Baher 2003

Stachys foeniculum Pursh.

➤ *Agastache foeniculum* (Pursh) Kuntze

Stachys lanata Jacq

➤ *Stachys byzantina* K. Koch

Stachys officinalis (L.) Trevis.

➤ *Betonica officinalis* L.

STACHYTARPHETA Vahl - False Vervain - Verbenaceae

Stachytarpheta cayennensis (L.C. Rich.) Schau.

Common Names ▶ Brazilian tea, rat tai vervain; *French*: petite vervaine queue de rat, petite queue de rat

Usage ▶ flavoring of sauces

Parts Used ▶ leaf

Distribution ▶ W Africa: E Cameroon, Nigeria

Burkill 5, 2000

Stachytarpheta indica (L.) Vahl

➤ *Stachytarpheta jamaicensis* Vahl

Stachytarpheta jamaicensis Vahl

Synonyms ▶ *Stachytarpheta indica* (L.) Vahl; *Valerianioides jamaicensis* (L.) Medic.; *Verbena jamaicense* L.

Common Names ▶ bastard vervain, Brazil tea, devil's coach whip, Jamaica vervain, light-blue snake, *Brazil (Portuguese)*: gervao cheirosa; *Chinese*: jia ma bram; *German*: Bastard Vervaine; *Pilipino*: bolo-moros, kandi-kandi laan

Usage ▶ spice (rarely), in Java of flavoring of the stews

Parts Used ▶ leaf

Distribution ▶ Mexico, SE USA, S America, E Africa, Pempe; widely native in the Tropics e.g. Sri Lanka

Backer/van de Brinck 2, 1965; Burkill 1965; 5 2000; Hanelt 2001; Kottegoda 1994; Mors et al. 2000; Schultze-Motel 1986; Uphof 1968; Villamar et al. 1994; Weath of India 10, 1976; Wiersema/León 1999

STAPHYLEA L. - Bladder nut - Staphyleaceae

Staphylea pinnata L.

Common Names ▶ bladdernut, European bladdernut; *French*: staphylier; *German*: Klappernuss, Fiederspaltige Pimpernuss, Blasenstrauch, Paternosterstrauch; *Russian*: klakatschka, klokitschka;

Usage ▶ condiment

Parts Used ▶ flower bud

Distribution ▶ C, EC Europe: France, Italy; Turkey, Caucasus, frequently native

Note ▶ substitute for capers in Georgia and N America when in short supply.

Aichele/Schwegler 3, 1995; Dudtschenko et al. 1989; Fleischhauer 2003; Schnelle 1999; Seidemann 1993; Teuscher 2003

STERCULIA L. - Sterculiaceae

Sterculia lanceaefolia Roxb.

Common Names ▶ longleafed sterculia; *German*: Langblättrige Sterkulie

Usage ▶ seasoning

Parts Used ▶ seed

Distribution ▶ India, SW China

Uphof 1968

Stilago buniis L.

➤ *Antidesma buniis* (L.) Spreng.

Stoechas arabica Garsault

➤ *Lavandula stoechas* L.

SUTERA Roth - Scrophulariaceae

Sutera atropurpurea (Banks) Hiern

Synonyms ▶ *Lyperia crocea* Ecklon, *Lyperia atropurpurea* Benth.

Common Names ▶ Cape saffron; *German*: Kapsafran;

Usage ▶ spice

Parts Used ▶ flower

Distribution ▶ S Africa: Transvaal, Namibia, Swaziland, Lesotho, Cape, Botswana

Note ▶ The entire flower is one of the sources of a commercial saffron (*Crocus sativus* L.).

Erhardt et al. 2000; Hillard 1994; Schenck/Naundorf 1966; Seidemann 2003; Staesche 1972; Uphof 1968; Teuscher 2003

SWERTIA L. - Swertia - Gentianaceae

Swertia angustifolia Buch.-Ham. ex Wall.

Common Names ▶ beautiful swertia; *Chinese*: mei li zhang ya cai; *German*: Schmalblättriges Chirettakraut; Schmalblättriger Tarant

Usage ▶ spice, flavoring

Parts Used ▶ herb

Distribution ▶ China, India, Indochina

Berger 4, 1954; Husain et al. 1992; v. Koenen 1996; Wiersema/Léon 1999

Swertia chirata Buch.-Ham. ex Wall.

Synonyms ▶ *Gentiana chirayta* Roxb.

Common Names ▶ chirata, chireta; *German*: Chirata, Chirettakraut, Kirayakraut; *Hindi*: cirayta; *India*: chirata; *Sanskrit*: kiratatikta, bhunimba kirata

Usage ▶ spice, flavoring of bitter liqueurs and hard bitter spirits

Parts Used ▶ herb

Distribution ▶ Himalayan regions, cultivated in the mountains of N India (Himalayas) and Pakistan

Chauhan 1999; Erhardt et al. 2002; Hiller/Melzig 1999; Hoppe 1949; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Uphof 1968; Wiersema/Léon 1999

Swertia manshurica (Komarow) Kitagawa

➤ *Swertia perennis* L.

Swertia perennis L.

Synonyms ▶ *Swertia manshurica* (Komarow) Kitagawa

Common Names ▶ felwort, marsh felwort; *Chinese*: mei wen dai, zhang ya cai; *German*: Blauer Sumpfstern, Blauer Tarant

Usage ▶ spice, flavoring of bitter liqueurs and bitter hard spirits

Parts Used ▶ herb

Distribution ▶ Himalayas, Europe cultivated



■ *Swertia chirata*, flowering

Aichele/Schwegler 3, 1995; Erhardt et al. 2002; Täufel et al. 1993

SYZYGIUM Gaertn. - Jambos - Myrtaceae



Syzygium aromatica Kuntze

➤ *Syzygium aromaticum* (L.) Merr. et L.M. Perry



Syzygium aromaticum (L.) Merr. et L.M. Perry



Synonyms ► *Caryophyllus aromaticus* L., *Eugenia aromatica* (L.) Baill., *Eugenia caryophyllata* Thunb. *Eugenia caryophyllus* (Spreng.) Bullock ex S.G. Harrison, *Syzygium romatica* Kuntze

Common Names ► clove, gilliflowers, nail of clove, Zanzibar redheads; *Arabic*: kermful, goronfel masamir, qaranful; *Cambodian*: khan phluu, khlam puu; *Chinese*: ding xiang, ting hsiang, ting tzu hsiang;



■ *Syzygium aromaticum*, floral-buds

Dutch: kruidnagel; *French*: giroflé, clou de giroflé, giroflie; *German*: Gewürznelken, Nelken, Nägelein; *Hindi*: lavang, laung; *Indonesian*: cengkeh, cingkeh; *Italian*: chiòdo di garofano; *Java*: wohkaya lawqang; *Malaysian*: bunga chingkeh, chengkeh; *Laos*: do: k chan, ka: nz ph'u; *Pilipino*: klabong pako, clavo de comer; *Portuguese*: cravinto, cravo de India; *Russian*: gvosdika; *Sanskrit*: devakusuma, lavanga; *Slovenian*: klinček; *Spanish*: clavillo, clavo, clavo de especia, clavo de olor; *Sri Lanka*: karabu neti, karambu; *Thai*: garn ploo, kanphlu; *Turkish*: carenfil

Usage ► spice; **product**: essential oil

Parts Used ► floral-bud

Distribution ► originally Moluccas and Philippines, cultivated in tropical countries: Zanzibar, Pemba, Madagascar, Malaysia (Penang), Sri Lanka, Réunion, Mauritius, Martinique

Note ► The fruit, mother of clove, Anthophylli, (*German*: Mutternelken) has also been used as a spice in the original countries. More than 90%(?) of the cloves are used in tobacco to produce "kretek" cigarettes, which are smoked mainly in Indonesia. Some variation exists in and outside its centre of origin.

Berger 1, 1949; Bierther 1984; Bois 1934; Boisvert/Huber 2000; Bournot 1968; Burkill 4, 1997; Cheers 1998; Craze 2002; Dalby 2000; Davidson 1999; Deininger 1991; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farnsworth/Bunyapraphatsara 1992;

Farrell 1985; Ferrão 1992; Gopalakrishnan 1994; Gopalakrishnan/Hanti 1990; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Koller 1979, 1981; Lawrence 1984; Lück 2000; Maistre 1964; Martin 1991; Morris/Mackley 1999; Mors/Rizini 1961; Newall et al. 1996; Norman 1991; Ochse et al. 1961; Peter 2001; Pruthi 1976; Pursglove 1968; Rosengarten 1969; Roth/Kormann 1997; Schröder 1991; Schultze-Motel 1986; Schweiheimer 1957; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Shriva et al. 2002; Siewek 1990; Staesche 1970; Täufel et al. 1993; Teuscher 2003; Tidbury 1949; Tschirch 1892; Vaupel 2002b; Villamar et al. 1994; Westphal/Jansen 1989; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Syzygium polyanthum (Wight) Walp.

Synonyms ► *Eugenia balsamea* Ridley, *Eugenia nitida* Duthie, *Eugenia polyantha* Wight,

Common Names ► salam, Indonesian bay-leaf; *Cambo-dian*: pring sratoab; *German*: Indischer Lorbeer, Indisches Lorbeerblatt, Friedensblatt, Salamblatt; *Indonesian*: daoen salam, daun salam; *Javanese*: manting; *Malaysian*: manting salam; *Thai*: daeng-kluai; dokmaeo, mak

Usage ► spice

Parts Used ► leaf

Distribution ► India: Nicobar Island, Myanmar, Indochina, Thailand, Malaysia, Indonesia: Java, Kalimantan, Sumatra

Note ► The use is comparable to that of *Laurus nobilis* L. leaves.

Davidson 1999; Guzman/Siemonsma 1999; Melchior/Kastner 1974; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Staesche 1972; Strauß 1969d; Teuscher 2003

Syzygium travancoricum Gamble

Usage ► flavoring; **product**: essential oil

Parts Used ► leaf

Distribution ► India

Note ► The essential oil has a typical aroma of raw mango.

Radha et al. 2002

T

TAGETES L. - Marigold - Asteraceae (Compositae)

 **Tagetes anisata** Lillo

➤ *Tagetes filifolia* Lag.

 **Tagetes erecta** L. ■

Common Names ▶ African marigold, Aztec marigold, big marigold, French marigold, saffron marygold; *Brazil*: cravo-de-defunto, rojao; *Chinese*: wan shou ju; *French*: tagète rose d'Inde; *German*: Aufrechte Studentenblume; Hohe Studentenblume; *Japanese*: senju-giku; *Mexico*: cempasóchil, cimpualxochite, cimpual, picosa, tiringuini, xkanlol; *Pilipino*: amarillo, ahito; *Portuguese*: maravilha; *Russian*: barchatcy prjamostojaschtschie; *Spanish*: flor de muerto

Usage ▶ spice, flavoring

Parts Used ▶ flower

Distribution ▶ Mexico, Meso-America, Brazil, widely cultivated, sometimes native

Aichele/Schwenker 4, 1995; Alan et al. 1968; Charalambous 1994; Dastur 1954; Erhardt et al. 2002; Espinar 1967; Heinrich 1996; Leung 1991; Mors et al. 2000; Neher 1968; Ochroa/Alosno 1996; Schultze-Motel 1986; Seidemann 1993c; Shiva et al. 2002; Small 1997; Villamar et al. 1994; Wiersema/León 1999; Wolters 1998; Zeven/de Wet 1982



■ **Tagetes erecta, flowering**

 **Tagetes filifolia** Lag.

Synonyms ▶ *Tagetes anisata* Lillo, *Tagetes multifida* DC.

Common Names ▶ Irish lace marigold; *German*: Lakritzen-Studentenblume, Lakritzen-Tagetes; *Mexico*: flor de Santa María, hierba anís, manzanilla; *Spanish*: anicillo, tuna anís

Usage ▶ spice (flavoring)

Parts Used ▶ leaf

Distribution ► Mexico, S America, Argentina

Espinar 1967; Ferraro 1955; Neher 1968; Small 1997; Villamar et al. 2000; Wiersema/León 1999; Wolters 1998

Tagetes glandulifera Schrank

► *Tagetes minuta* L.

Tagetes lucida Cav.

Common Names ► Mexican marigold mint, Mexican taragon, sweet mace, sweet-scented marigold; *German*: Gewürztagetes, Glänzende Samtblume, Süße Studentenblume, “Winterstragon”, Wolkenkraut; *Mexico*: pericón, quie laga zaa, yauhtli; *Russian*: barshatjstyj; *Spanish*: anisillo, pericón, periiquillo, hierba de Santa Maria

Usage ► condiment, flavoring

Parts Used ► herb

Distribution ► Mexico, Guatamala, Meso-America, India cultivated

Alberts/Muller 2000; Bichi et al. 1997; Bois 1934; Davidson 1999; Erhardt et al. 2002; Hiller/Melzig 1999; Neher 1968; Orth 2004; Rättsch 1998; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Thappa et al. 1993; Tucker 1986; Villamar et al. 1994; Wiersema/León 1999; Wolters 1998

Tagetes lumulata Ortega

► *Tagetes patula* L.

Tagetes maxima Kuntze

Common Names ► great marigold; *German*: Große Studentenblume

Usage ► seasoning

Parts Used ► herb, flower

Distribution ► Mexico; S America: Bolivia, Guatamala, cultivated in Europe

Note ► The plant ‘cempoalxóchtli’ is contained in the head ornamentation of the Aztec goddess “Xoyolanhqui”.

Espinar 1967; Lorenzo et al. 2002; Orth 2004

Tagetes minuta L.

Synonyms ► *Tagetes glandulifera* Schrank

Common Names ► Aztec marigold, dwarf marigold, stinking roger, wild marigold, Mexican marigold, Muster-John-Henry; *Brazil (Portuguese)*: coari-bravo, cravo-de-defunto-miúdo; *German*: Kleine Studentenblume, Mexikanische Studentenblume, Stinkpeterle, Khakikraut; *Russian*: barchatcy melkie; *Spanish*: chinchilla enana

Usage ► condiment, flavoring

Parts Used ► flower, herb

Distribution ► C, S America, Brazil, cultivated and native in tropical S Europe, India

Atkinson et al. 1964; Bansal et al. 1999; Baser/Malyer 1996; Charalambous 1994; Chauhan 1999; Chisowa et al. 1998; Craveiro et al. 1988; Davidson 1999; Erhardt et al. 2002; Espinar 1967; Gardner et al. 1991; Garg/Mehta 1998; Graven et al. 1991; Handa et al. 1963; Kaul et al. 1998; v. Koenen 1996; Maria et al. 1997; Mors et al. 2000; Neher 1968; Ram et al. 1998; Rao et al. 1999, 2000; Zazdan et al. 1986; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Singh et al. 1992, 1995, 2003; Small 1997; Thappa 1993; Wiersema/León 1999; Wolters 1998; Yannitsaros 1979; Zeven/de Wet 1982

Tagetes multifida Lag.

► *Tagetes filifolia* Lag.

Tagetes patula L.

Common Names ► French marigold, spreading marigold; *Chinese*: kong que cao, xi fan ju; *French*: oeillt d’Inde; *German*: Afrikanische Ringelblume, Absteheende Studentenblume; *Japanese*: kô-ô-sô; *Mexico*: clemole, clemolitos, iscoque, pastora, pastorcita; *Russian*: barchatcy otklonennyye; *Spanish*: amapola, amarilla, copetillo

Usage ► spice, flavoring

Parts Used ► flower

Distribution ► Mexico, Guatamala, cultivated and native elsewhere; W Africa, Gabon; Philippines

Aichele/Schwenker 4, 1995; Bremness 2001; Burkill 1, 1985; Charalambous 1994; Dudtschenko et al. 1989; Erhardt et al. 2002; Espinar 1967; Hager 1, 1990; Hiller/Melzig 1999; Kottegoda 1994; Leung 1991; Neher 1968; Schultze-Motel 1986; Small 1997; Wiersema/León 1999; Wolters 1998; Zeven/de Wet 1982

 Tagetes signata Bartl.

► *Tagetes tenuifolia* Cav.

 Tagetes tenuifolia Cav.

Synonyms ► *Tagetes signata* Bartl.

Common Names ► American saffron, signet marygold, slender leaf marigold, striped Mexican marigold, lemon gem, orange gem; *French*: tagète tachée; *German*: Gestreifte Mexikanische Studentenblume, Gewürz-Studentenblume, Schmalblättrige Studentenblume

Usage ► spice, flavoring

Parts Used ► flower, leaf, especially potato soups

Distribution ► Mexico, Ecuador, Meso-America, cultivated in Europe

Aichele/Schwenker 4, 1995; Erhardt et al. 2002; Espinar 1967; Nether 1968; Schultze-Marigold 1986; Small 1997; Wiersema/León 1999; Zeven/de Wet 1982



TAMARINDUS L. - Tamarind - Caesalpiniaceae (Leguminosae)

 Tamarindus indica L.

Synonyms ► *Tamarindus occidentalis* Gaertn., *Tamarindus officinalis* Hook, *Tamarindus umbrosa* Salisb.

Common Names ► tamarind, Indian tamarind; *Arabic*: homr, dakhar, tamre, tamre-nindi; *Chinese*: luowang zi, suan jiao; *Dutch*: asam koening, tamarinde; *French*: tamarine, tamarinier; *German*: Tamarinde, Indische Dattel, Sauerdattel; *Hindi*: amlī, anbli, imli; *Indonesian*: asem jawa; *Italian*: tamarindo; *Japanese*: tamarinde; *Javanese*: kemal, wit asem; *Malaysian*: asam jawa; *Mexico*: pachukuk, tamarindo; *Pilipino*: kamalagui, sampalik; *Portuguese*: tamarindeiro, tambarine; *Russian*: tamarind; *Slovenian*: tamarind; *Spanish*: tamarindo (indico); *Thai*: makhaam; *Vietnamese*: me, me chua;

Usage ► spice, condiment; **product**: essential oil (leaf)

Parts Used ► fruit, pulp; leaf

Distribution ► tropical Africa; cultivated in numerous tropical countries



■ **Tamarindus indica**: a flowering, b tamarind jam with seeds (from Egypt)

Aké Assi/Guinko 1991; Arora/Pandey 1996; Benero et al. 1972; Berger 3, 1952; Bhattacharya et al. 1993, 1994a, b; Cheers 1997; Craze 2002; Dastur 1954; Davidson 1999; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Giridharlai et al. 1958; Hager 1, 1990; Hanelt 2001; Hiller/Melzig 1999; Hoppe 1949; Jansen 1981; Kooian 1961; Lee et al. 1975; Leung 1991; Lewis/Neelakantan 1964; Lück 2004; Marangoni et al. 1988; Morris/Mackley 1999; Nagaraja et al. 1975; Norman 1991; Peter 2001; Pruthi 1976; Pschyrembel 1998; Pursglove 1968; Rao 1995; Sagrero-Nieves et al. 1994; Schultze-Motel



■ **Tamarindus indica**, fruits

1986; Schwenck/Naundorf 1966; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Shankaracharya 1998; Sharma 2003; Siewek 1990; Staesche 1972; Stobart 1978; Storrs 1997; Strauß 1969; Täufel et al. 1993; Teuscher 2003; Tschirch 1892; Tsuda et al. 1994; Uhl 2000; Verheij/Coronel 1991; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982; Zhang/Ho 1990

🌿 **Tamarindus occidentalis** Gaertn.

➤ *Tamarindus indica* L.

🌿 **Tamarindus officinalis** Hook.

➤ *Tamarindus indica* L.

🌿 **Tamarindus umbrosa** Salisb.

➤ *Tamarindus indica* L.

TANACETUM L. - Tansy - Asteraceae (Compositae)

🌿 **Tanacetum audibertii** (Req.) DC.

➤ *Tanacetum vulgare* L.

🌿 **Tanacetum balsamite** L.

Synonyms ▶ *Balsamita major* Desf., *Chrysanthemum balsamite* L., *Chrysanthemum majus* (Desf.) Aschers., *Pyrethrum majus* (Desf.) Tzvelev

Common Names ▶ alecost, costmary, mint geranium, sweet mary, bible leaf; *Chinese*: ju hua; *French*: balsamite, baume-coq, chrysanthème des fleuristes; *German*: Balsamkraut, Balsam-Margerite, Frauenminze, Kalufer, Marienblatt, Minzartiger Rainfarn, Römischer Balsam; *Italian*: balsamite, chrysantemo, osto; *Russian*: kalufer, kanuper, sara-zinskaja mirtja, bal'samitscheskaja pjabinka; *Spanish*: chrysantema balsamita

Usage ▶ spice, flavoring for liqueurs

Parts Used ▶ herb

Distribution ▶ Turkey, Caucasus, N Iran, C Asia; naturalized in Spain, France, Italy, EC Europe, Russia; cultivated and naturalized elsewhere

Berger 4, 1954; Bois 1934; Bremness 2001; Charalambous 1994; Cheers 1997; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Göckeritz 1968; Heeger 1956; Hoppe 1949; Pochljobkin 1974, 1977; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Teuscher 2003; Tucker 1986; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004

🌿 **Tanacetum vulgare** L.

Synonyms ▶ *Chrysanthemum vulgare* (L.) Bernh.; *Tanacetum audibertii* (Req.) DC.

Common Names ▶ barbotine, button bitters, golden-button, common tansy, tansy; *Brazil (Portuguese)*: cat-inga-de mulata, tasneira *French*: tanaïsie vulgaire, athanase, barbotine indigène, ganelle, herbe aux vers; *German*: Rainfarn, Wurmkraut, Gänserich; *Italian*: ariceto, tanaceto, erba amara; *Portuguese*: tasneira; *Russian*: pishma; *Spanish*: atanasia, balsamite minor, hierba lombriguera, hierba de San Marcos, tanaceto

Usage ► spice, flavoring; **product**: essential oil; sporadically for liqueurs

Parts Used ► herb

Distribution ► temperate Asia, N America, Europe, native elsewhere

Note ► In the plant the thujon content is very high; therefore the plant is not used in the food industry.

Appendino 1982; Appendino et al. 1984; Berger 1, 1949; 4, 1954; Bois 1934; Bremness 2001; Charalambous 1994; Cheers 1997; Clair 1961; Collin et al. 1994; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Heeger 1956; Hendriks et al. 1993; Hoppe 1949; Mors et al. 2000; Németh et al. 1994; Newall et al. 1996; Opdyke 1976; Pschyrembel 1998; Roth/Kormann 1997; Schiffer 1988; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Teuscher 2003; Tucker 1986; Turova et al. 1987; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

TARALEA Aubl. - Papilionaceae (Leguminosae)

Taralea oppositifolia Aubl.

Synonyms ► *Dipteryx oppositifolia* (Aubl.) Willd.

Common Names ► English tonka (bean); *German*: Englische Tonkabohne

Usage ► flavoring

Parts Used ► seed

Distribution ► Brazil, N, S and W America

Note ► Alternative substitute of the 'true' tonka bean (*Dipteryx odorata* [Aubl.] Willd.).

Schultze-Motel 1986; Seidemann/Siebert 1987; Wiersema/León 1999

TARAXACUM Web. ex Wigg. - Blowballs, Dandelion - Asteraceae (Compositae)

Taraxacum officinale Wigg.

Synonyms ► *Leontodon taraxacum* Kartsen, *Leontodon vulgare* Lam., *Taraxacum vulgare* Schrank

Common Names ► dandelion, lions-tooth, milk-gowan, pee in the bed, puffball; *Arabic*: tarak sahha; *French*: coq, dent le lion, laiteron, pissenlit; *Ger-*

man: Butterblume, Gemeiner Löwenzahn, Kuhblume; *Hindi*: dudhal; *Italian*: capo di fratre, dente di leone, piscacane, radichiello, soffione; taras-saco; *Russian*: oduwantschik lekarstvennyj; *Sanskrit*: dugdhapheni, payasvini; *Spanish*: anagrón, diènte de león

Usage ► pot-herb

Parts Used ► fresh leaf

Distribution ► origin in Europe, Asia minor, widespread temperate weed; cultivated in W and C Europe, N America, India and Japan

Aichele/Schwenker 4, 1995; Bendel 2002; Berger 1, 1949; 4, 1954; Bilgri/Adam 2000; Charalambous 1994; Cheers 1997; Coiciu/Racz (no year); Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Hager 4, 1992; Hanelt 2001; Hänsel et al. 1980; Hausen 1982; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Leung 1991; Lewington 1990; Newall et al. 1996; Pschyrembel 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Täufel et al. 1993; Topf 1958; Tucker 1986; Turova et al. 1987; Viillamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

Taraxacum vulgare Schrank

► *Taraxacum officinale* agg. F.H. Wigg.

Tasmannia lanceolata (Poir.) A.C. Sm.

► *Drimys lanceolata* (Poir.) Baill.

TELFAIRIA Hook. - Cucurbitaceae

Telfairia occidentalis Hook.f.

Common Names ► fluted gourd, fluted pumpkin, oyster nuts; *Chinese*: xi fei li; *German*: Faltenkürbis; Oroko, Riffelkürbis; *Portuguese*: sabina; *Spanish*: calabaza costillada

Usage ► pot-herb; food (oil/fat, vegetables)

Parts Used ► young branch and leaves

Distribution ► tropical E, S and W Africa

Bois 1934; Erhardt et al. 2002; Esuoso et al. 1998; Hanelt 2001; Kays/Dias 1995; Wiersema/León 1999; Zeven/de Wet 1982

TEPHROSIA Pers. - Hoary Pea - Fabaceae (Leguminosae)

Tephrosia linearis (Willd.) Pers.

Common Names ▶ linear tephrosie, linear hoary pea; *French*: linéaire requiène; *German*: Lineare Aschenwicke, Lineare Tephrosie; *Russian*: linejts-chatyj tefrosia

Usage ▶ seasoning

Parts Used ▶ pulped leaves

Distribution ▶ from Senegal to Cameroon, E and S tropical Africa

Burkill 3, 1995; Hanelt 2001

Tephrosia purpurea (L.) Pers.

Synonyms ▶ *Galega purpurea* (L.) L.

Common Names ▶ purple tephrosia, wild indigo, purple hoary pea, fish poison tree; *French*: pourpre requiène; *German*: Wilder Indigo, Purpurne Aschenwicke, Pupurne Tephrosie, Surinam-Giftbaum; *Hindi*: bannilgach, carphonka, dhamasia; *Japanese*: nanban-fuji; *Sanskrit*: sharapunkha; *Russian*: tefrosija; *Tamil*: kolinchi

Usage ▶ flavoring (of milk in N Nigeria))

Parts Used ▶ root

Distribution ▶ tropical Africa and Asia: India, Australia

Burkill 3, 1995; Dalziel 19957; Erhardt et al. 2002; Hanelt 2001; v. Koenen 1996; Sharma 2003; Wealth of India 10, 1976; Zeven/de Wet 1982

Terbentus lentiscus Moench

▶ *Pistacia lentiscus* L.

TETRAPLEURA Benth. - Fabaceae (Leguminosae)

Tetrapleura tetraptera (Schum. et Thonn.) Taub.

Synonyms ▶ *Adenanthera tetraptera* Schum. et Thonn., *Tetrapleura thonningii* Benth.

Common Names ▶ *Cameroon*: akpa, dawo, essanga, sang; *Congo*: badiok, eyaka, ezibil, kiaka; *German*: Tetrapleure; *Spanish*: frutos de enzisie

Usage ▶ spice, condiment

Parts Used ▶ fruit

Distribution ▶ W Africa, also cultivated

Adewunmi et al. 1982; Aedo et al. 2001; Essien et al. 1994; Hiller/Melzig 1999; Maillard et al. 1992; Neuwinger 1994, 1998; Ngasoum et al. 2001; Seidemann 2001b

TEUCRIUM L. - Germander - Lamiaceae (Labiatae)

Teucrium canum Fisch. et Mey.

▶ *Teucrium chamaedrys* L.

Teucrium chamaedrys L.

Synonyms ▶ *Chamaedrys officinalis* Moench, *Teucrium canum* Fisch. et Mey., *Teucrium leucophyllum* Benth., *Teucrium nuchense* C. Koch, *Teucrium officinale* Lam., *Teucrium pseudochamaedrys* Wendl., *Teucrium veronicae-folium* Salisb.

Common Names ▶ common germander, wall german; *French*: calamandier petit chêne, chénette, germandrée chamaedrys, germandrée petit chêne; *German*: Edel-Gamander, Gamanderlein; *Italian*: abrotano maschino, calamandrea, querciola; *Russian*: dubrovník purpurovyj, polyn'bosh'e derewo; *Spanish*: abrotano

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Europe, N Africa, Caucasus, former Soviet Union, middle Asia, W Asia



■ **Tetrapleura tetraptera**, fruits

Aichele/Schwenker 4, 1995; Bellesia et al. 1983; Berger 4, 1954; Bremness 2001; Charalambous 1994; Cheers 1997; Dudtschenko et al. 1989; Erhardt et al. 2002; Gross et al. 1988; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Marco et al. 1983; Schönfelder 2001; Seidemann 1993c; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

🌿 **Teucrium leucophyllum** Benth.

➤ *Teucrium chamaedrys* L.

🌿 **Teucrium martinum** Lam.

➤ *Teucrium marum* L.

🌿 **Teucrium marum** L.

Synonyms ▶ *Chamaedry marum* Moench, *Teucrium martinum* Lam., *Teucrium odorum* Salisb.

Common Names ▶ cat thyme; *French*: herbe mastiche, *German*: Amberkraut, Katzensamander, Katzenkraut, Moschuskraut; *Italian*: erba da gatte, maro

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ S Europe: Croatia, Italy, Sardinia, Corsica; cultivated formerly in Germany

Beaupin et al. 1977; Bellesia et al. 1983; Berger 4, 1954; Cheers 1997; Erhardt et al. 2002; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Zeven/de Wet 1982

🌿 **Teucrium nuchense** C. Koch

➤ *Teucrium chamaedrys* L.

🌿 **Teucrium odorum** Salisb.

➤ *Teucrium marum* L.

🌿 **Teucrium officinale** Lam.

➤ *Teucrium chamaedrys* L.

🌿 **Teucrium palustre** Lam.

➤ *Teucrium scordium* L.

🌿 **Teucrium pseudochamaedrys** Wendr.

➤ *Teucrium chamaedrys* L.

🌿 **Teucrium scordioides** Schreb.

➤ *Teucrium scordium* L.

🌿 **Teucrium scorodum** L. ■

Synonyms ▶ *Teucrium palustre* Lam. *Teucrium scordioides* Schreb.

Common Names ▶ wall gamander, wall sage, wood germander; *Arabic*: bellout el-ard; *French*: german-drée scorodaine aquatique; *German*: Bergsalbei, Lauch-Salbei, Salbeigamander, Waldgamander, Waldsalbei, Wilder Gamander; *Russian*: du-brovnik skordievny



■ **Teucrium:** a *T. chamedrys*, flowering, b *T. scorodium*, flowering

Usage ▶ pot-herb (rarely)

Parts Used ▶ fresh herb

Distribution ▶ E, C Europe, W Siberia, C Asia, India (Kashmir)

Note ▶ The fresh herb has a garlic-like odor and taste.

Berger 4, 1954; Erhardt et al. 2002; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Jakupovic et al. 1985; Marco et al. 1983; Schönfelder 2001; Schultze-Motel 1986; Sevinato-Pinto/Antunes 1991

Teucrium veronicaefolium Salisb.

➤ *Teucrium chamaedrys* L.

Thlaspi bursa-pastoris L.

➤ *Capsella bursa-pastoris* (L.) Medik.

THONNINGIA Vahl - Balanophoraceae

Thonningia dubia Hemsley

➤ *Thonningia sanguinea* Vahl

Thonningia elegans Hemsley

➤ *Thonningia sanguinea* Vahl

Thonningia sanguinea Vahl

Synonyms ▶ *Thonningia elegans* Hemsley; *Thonningia dubia* Hemsley

Common Names ▶ ground pineapple; *Congo*: litanda

Usage ▶ flavoring (soups)

Parts Used ▶ roots (no rhizomes!)

Distribution ▶ W Africa: Gabun, Ghana, Ivory Coast, Congo, Rwanda, Sierra Leone, Togo, Zaire

Adegoke et al. 1968; Ayensu 1978; Burkill 1, 1985; Dalby 2000; Hiller/Melzig 1999; Neuwinger 1998

Thymbra spicata L.

➤ *Thymus capitatus* (L.) Hoffmanns et Link

THYMUS L. - Thyme - Lamiaceae (Labiatae)

Thymus aestivus Willk.

➤ *Thymus vulgaris* L.

Thymus angustifolius Pers.

➤ *Thymus serpyllum* L.

 Thymus calamintha Scop.

► *Calamintha menthifolia* Host

 Thymus broussonetii Boiss.

Common Names ► Broussonet thyme; *German*: Broussonet-Thymian

Usage ► spice

Parts Used ► leaf, herb

Distribution ► N Africa: Moroccan rocks

Davidson 1999

 Thymus caespitius Brot.

Common Names ► Azores thyme, mountain thyme, tiny thyme; *German*: Azorenthymian

Usage ► spice, flavoring

Parts Used ► fresh leaves

Distribution ► NW Spain, Portugal, Canary Islands, Azores

Bärtels 1997; Berger 4, 1954; Bremness 2001; Davidson 1999; Guzman/Siemonsma 1999; Small 1997; Tucker 1986; Valverde 1986

 Thymus capitatus (L.) Hoffmanns et Link

Synonyms ► *Coridothymus capitatus* (L.) Rchb.f., *Satureja capitata* L., *Thymbra spicata* L., *Thymus cephalotos* L.

Common Names ► catir, conehead thyme, Cretean thyme, Senegal savory, Spanish oregano, zatir; *Arabic*: za'atar hommar, za'atar midbari; *French*: thym de Candie; *German*: Spanischer Oregano; *Italian*: timo arbustino; *Portuguese*: tomilho; *Spanish*: corido thyme, tomillo

Usage ► spice; especially essential oil (Spanish oregano oil), rich in carvacrol, used for food flavoring (baked goods, meats, ice-cream or candy), cosmetics

Parts Used ► flowering herb

Distribution ► Mediterranean region of Europe, Portugal to W and S Anatolia and to SW Asia, N Africa: Morocco to Tunisia, Israel

Akgül/Kivanç 1988; André 1998; Anon. 1993; Barberán et al. 1986;

Bärtels 1997; Berger 4, 1954; Bourton 1968; Capone et al. 1988; Charalambous 1994; Cheers 1997; Fleisher/Fleisher 2002; Guzman/Siemonsma 1999; Hager 5, 1993; Hanelt 2001; Harcı et al. 2003; Hedhili et al. 2002; Herisset et al. 1974; Hiller/Melzig 1999; Hohmann 1968; Hoppe 3 1987; Kanias/Loukis 1992; Kustrak/Martinis 1990; Melchior/Kastner 1974; Miski et al. 1983; Philianos et al. 1982; Ravid/Putievsky 1985; Ruberto et al. 1992; Seidemann 1993c; Sendra/Cunat 1980a, b; Small 1997; Täufel et al. 1993; Tucker 1986; Tumen et al. 1994; Valverde 1986

 Thymus cephalotos L.

► *Thymus capitatus* (L.) Hoffmanns & Link

 Thymus chamaedrys Fries

► *Thymus pulegioides* L.

 Thymus x citriodorus (Pers.) Schreb.

Synonyms ► *Thymus pulegioides* x *Thymus vulgaris* L.

Common Names ► lemon thyme; *French*: thym citronné; *German*: Zitronenquendel, Zitronenthymian

Usage ► spice

Parts Used ► fresh leaves, fresh herb

Distribution ► the garden hybrid has been cultivated for a long time in Europe: England, Spain, Austria, Germany etc.

Note ► The name lemon thyme is also applied to lemon-scented chemotypes of other species e.g. bastard from *Thymus pulegioides* L. x *Th. vulgaris* L.) additionally orange-, coconut-, nutmeg-, lavender-, mint- and oregano-scented species and cultivars have been reported in the genus *Thymus*.

Berger 4, 1954; Bremness 2001; Cheers 1997; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Kustrak/Martinus 1990; Mikus/Schaser 1995; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Stahl-Biskup/Holthuijzen 1995; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Valverde 1986; Wiersema/León 1999; Wüstenfeld/Haensel 1964

 Thymus collinus Salisb.

► *Thymus vulgaris* L.

 Thymus fedtschenkoi var. handelii
(Ronniger) Jalas

Usage ▶ condiment

Parts Used ▶ herb

Distribution ▶ Turkey, Asia minor

Başer et al. 2002

 Thymus glandulosus Lag.

➤ *Thymus vulgaris* L.

 Thymus grandiflorus (L.) Scop.

➤ *Calaminthe grandiflora* (L.) Moench

 Thymus herba-barona Lois.

Common Names ▶ caraway thyme; *German*: Kümmel-thymian

Usage ▶ spice, especially in Great Britain for beef

Parts Used ▶ leaf

Distribution ▶ Corsica and Sardinia, cultivated in W Europe and N America

Cheers 1997; Davidson 1999; Guzman/Siemonsma 1999; Hanelt 2001; Juliano et al. 2000; Small 1997; Teuscher 2003; Tucker 1986; Usai et al. 2003; Valverde 1986; Wiersema/León 1999

 Thymus hyemalis Lange

Common Names ▶ lemon thyme, winter thyme; *French*: verveine d'espagne; *German*: Spanische Verbene; Winterthymian

Usage ▶ spice; **product**: essential oil (*thyme lemon oil*)

Parts Used ▶ leaf

Distribution ▶ SE Iberian Peninsula

Adzet et al. 1976; Berger 4, 1967; Blanca et al. 1993; Cabo et al. 1986, 1987; Jordán et al. 2003; Sáez 1995; Valverde 1986

 Thymus longicaulis Ronniger

Common Names ▶ *German*: Langstengeliger Thymian

Usage ▶ spice

Parts Used ▶ fresh leaf

Distribution ▶ SW Europe, SE Europe; native in Germany

Erhardt 2002; Fleischhauer 2003

 Thymus mastichina L.

Synonyms ▶ *Thymus tomentosus* Willd.

Common Names ▶ mastic thyme, Spanish (wild) marjoram, Spanish thyme; *German*: Mastixthymian, Spanischer Thymian; *Portuguese*: bela luz; *Spanish*: mejorana silvestre, tomillo blanco;

Usage ▶ spice; **product**: essential oil (Spanish wild marjoram oil, with high cineol content), used in the food industry

Parts Used ▶ herb

Distribution ▶ SW Europe: Iberian Peninsula, introduced into Argentina

Bärtels 1997; Berger 4, 1954; Bourton 1968; Cheers 1997; Davidson 1999; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Mäkel 1944b; Melchior/Kastner 1974; Roth/Kormann 1987; Schultze-Motel 1997; Seidemann 1993c; Small 1997; Täufel et al. 1993; Tucker 1986; Ubillos 1989; Valverde 1986; Wiersema/León 1999

 Thymus migricus Klokov et Des.-Shost

Usage ▶ condiment

Parts Used ▶ herb

Distribution ▶ Turkey, Asia minor

Başer et al. 2002

 Thymus odoratissimus M. Bieb.

➤ *Thymus pallasianus* H. Braun

 Thymus oenipontanus *H. Braun ex Borbás*

Common Names ▶ Austrian thyme; *German*: Österreichischer Thymian, Tiroler Thymian

Usage ▶ spice

Parts Used ▶ fresh leaf

Distribution ▶ Europe: France, Italy, Switzerland, Austria, SE Alps

Erhardt et al. 2002; Fleischhauer 2003

 Thymus origanum *E.H.L. Krause*

▶ *Origanum vulgare* L.

 Thymus pallasianus *H. Braun*

Synonyms ▶ *Thymus odoratissimus* M. Bieb.

Common Names ▶ *German*: Russischer Steppen-Thymian

Usage ▶ spice, specially for dessert sauces

Parts Used ▶ herb

Distribution ▶ former S Soviet Union

Bremness 2001; Erhardt et al. 2002; Teuscher 2003; Valverde 1986

 Thymus pannonicus *Opiz*

Common Names ▶ *German*: Pannonischer Thymian, Steppen-Thymian

Usage ▶ spice

Parts Used ▶ fresh thyme

Distribution ▶ SE Europe: Austria, Hungary; native in Germany

Erhardt et al. 2002; Fleischhauer 2003

 Thymus piperella L.

▶ *Micromeria piperella* Benth.

 Thymus praecox *Opiz*

Common Names ▶ alba thyme, creeping thyme, hairy thyme; *French*: thym pecoce, thym rampant; *German*: Frühblühender Thymian

Usage ▶ spice, flavoring

Parts Used ▶ leaf, herb

Distribution ▶ Europe, Turkey, Caucasus, N Iran; available in Canada and the USA

Note ▶ The plant has a nutmeg scent.

Erhardt et al. 2002; Small 1997

 Thymus przewalskii (Kom.) Naka

▶ *Thymus quinquecostatus* Čelak.

 Thymus pubescens Boiss. et Kotschy ex Celak

Synonyms ▶ *Thymus xylorrhizus* Boiss. et Kotschy ex Boiss.

Common Names ▶ pilous thyme; *German*: Behaarter Thymian

Usage ▶ spice, flavoring; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ Turkey, Iran

Sefidkon et al. 2002

 Thymus pulegioides L.

Synonyms ▶ *Thymus chamaedrys* Fries

Common Names ▶ lemon thyme, caraway thyme, wild thyme, herba barona, Italian oregano; *German*: Arznei-Thymian, Feldthymian, Echter Quendel; Piemonteser Thymian

Usage ▶ spice; **product**: essential oil

Parts Used ▶ herb

Distribution ▶ Europe, also cultivated

Note ▶ The plant has a lemon odor.

Aichele/Schwenker 4, 1995; Berger 4, 1954; Bremness 2001; Davidson 1999; Erhardt et al. 2002; Fleischhauer 2003; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Mártonfi 1992; Mikus/Schaser 1995; Mockute/Bernotienne 1999; Schnelle 1999;

Schönfelder 2001; Senatore 1996; Small 1997; Uhl 2000; Täufel et al. 1993; Teubner 2001; Teuscher 2003; Tucker 1986; Ubillos 1989; Valverde 1986; Wiersema/León 1999

Thymus pulegioides L. x Thymus vulgare L.

➤ *Thymus x citriodorus (Pers.) Schreb.*

Thymus quinquecostatus Čelak.

Synonyms ▶ *Thymus przewalskii* (Kom.) Nakai, *Thymus quinquecostatus* var. *przewalskii* (Kom.) Ronniger, *Thymus serpyllum* L. var. *przewalskii* Kom.

Common Names ▶ Japanese thyme, five-ripped thyme; *Chinese*: di jiao; *German*: Japanischer Thymian; *Japanese*: ibuki-jakō-sō; *Korean*: paekriyhang

Usage ▶ spice, for soups, fish, eggs and meat dishes

Parts Used ▶ herb

Distribution ▶ NE and C China to Korea, Far E Russia, Japan, cultivated as a spice plant in Japan and as a medicinal plant in Korea

Fang et al. 1988; Guzman/Siemonsma 1999; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Teuscher 2003; Tucker 1986; Valverde 1986

Thymus quinquecostatus Čelak. var. przewalskii (Kom.) Ronninger

➤ *Thymus quinquecostatus Čelak.*

Thymus serpyllum L.

Synonyms ▶ *Thymus angustifolius* Pers.

Common Names ▶ creeping thyme, mother-of-thyme, wild thyme, Spanish origano; *Arabic*: zahtar, za'atar; *French*: serpolet, thym sauvage, thyme serpolet; *German*: Feldthymian, Feldpolei; Kunerle, Quendel, Sandthymian, Wilder Thymian; *Italian*: timo serpillo; *Russian*: tschabrez, tim'jan, tim'jan polsuutschik, obyknownnyj, trawa bogorodskaja; *Spanish*: sérpul

Usage ▶ spice; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ C and NE Europe, Iceland, Siberia, NW Himalayas

Aichele/Schwenker 4, 1995; Arora/Pandey 1996; Arrebola et al. 1994; Berger 4, 1954; Bilgri/Adam 2000; Bremness 2001; Chalchat/Lamy 1997; Cheers 1997; Czygany/Hänsel 1993; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Fleischhauer 2003; Guzman/Siemonsma 1999; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Khan et al. 1988; Kustrak/Martinius 1990; Melchior/Kastner 1974; Oszagyan et al. 1996; Patáková/Chládek 1974; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Roth/Kormann 1997; Schnelle 1999; Schönfelder 2001; Seidemann 1993c; Sharma 2003; Small 1997; Täufel et al. 1993; Teubner 2001; Teuscher 2003; Tucker 1986; Turova et al. 1987; Uhl 2000; Valverde 1986; Wiersema/León 1999; Wüstenfeld/Haensel 1964

Thymus serpyllum L. var. przewalskii Kom.

➤ *Thymus quinquecostatus Čelak*

Thymus tenuifolius Mill.

➤ *Thymus vulgaris L.*

Thymus tomentosus Willd.

➤ *Thymus mastichina L.*

Thymus vulgaris L.

Synonyms ▶ *Thymus aestivus* Willk., *Thymus collinus* Salisb., *Thymus glandulosus* Lag., *Thymus tenuifolius* Mill.

Common Names ▶ common thyme, garden thyme; *Arabic*: sa'tar ramsi, za'atar; *Chinese*: ai hao, she xiang caotimjan; *Dutch*: tijm; *French*: farigoule, frigoule, thym commun, thym cultivé; *German*: Echter Thymian, Gartenthymian, Gewürzthymian, Kuttelkraut, Römischer Quendel, Thymian; *Italian*: timo, erbuccia, timo maggiore, timo volgare, pepollino; *Portuguese*: tomilho; *Russian*: tim'jan, tim'jan obyknowennyj, tim'jan duschistuj. tim'jan, timiamnik; *Spanish*: tomillo, tomillo común

Usage ▶ spice; **product**: essential oil (thyme oil) and thymol

Parts Used ▶ leaf, herb

Distribution ▶ W Mediterranean regions: Morocco, E Spain, S France, W Italy; widely cultivated in Eu-

rope and N America; also grown in other temperate and tropical areas

Note ▶ Sporadically falsification with *Thymus satureioides* Coss. et Balsana (German: Saturei-Thymian). This plant has a harsh odor and taste.

Aichele/Schwenker 4, 1995; Assouad/Valdeyron 1975; Bärtels 1997; Berger 4, 1954; Blázquez/ZafraPolo 1990; Bois 1934; Cheers 1997; Coiciu/Racz (no year); Czygan/Hänsel 1993; Davidson 1999; Delpit et al. 2000; Dommée et al. 1978; Dudtschenko et al. 1989; Echeverrigaray et al. 2001; Erhardt et al. 2002; Farrell 1985; Fleischhauer 2003; Gabel et al. 1962; Guzman/Siemonsma 1999; Hager 4, 1992; Hanelt 2001; Hay/Waterman 1993; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Hondelmann 2002; Hudaib et al. 2002; Jackson/Hay 1994; Karawya/Hifnawy 1974; Kustrak/Martinius 1990; McGimpsey et al. 1994; Melchior/Kastner 1974; Newall et al. 1996; Nowak 1936; Opdyke 1974; Ouyon et al. 1986; Pachaly 1989; Pank/Krüger 2003c; Passet 1971; Patáková/Chládek 1974; Piccaglia/Marotti 1991; Pino et al. 1998; Pochljobkin 1974, 1977; Pruthi 1976; Rosen-garten 1969; Roth/Kormann 1997; Sameron et al. 1990; Schönfelder 2001; Schratz/Hörster 1971; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Sharma 2003; Small 1997; Staesche 1972; Stahl-Biskup 1991, 2003; Stahl-Biskup/Sáez 2002; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Turova et al. 1987; Ubillos 1989; Valverde 1986; Veskutonis et al. 1996c; Villamar et al. 1994; Wang et al. 1998; Weiss/Flück 1970; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

Thymus xylorrhizus Boiss. et Kotschy ex Celak

▶ *Thymus pubescens* Boiss. et Kotschy ex Celak

Thymus zygis L.

Common Names ▶ Spanish thyme, sauce thyme; *German*: Spanischer Thymian, Südfranzösischer Thymian, Jochthymian

Usage ▶ spice; **product**: essential oil (thyme oil), source of thymol

Parts Used ▶ herb

Distribution ▶ SW Europe: native to Portugal, Spain and S France; N Africa: Morocco

Berger 4, 1954; Bourton 1968; da Cunha/Salgueiro 1991; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hiller/Melzig 1999; Mäkel 1994b; Melchior/Kastner 1974; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Staesche 1972; Teuscher 2003; Tucker 1986; Ubillos 1989; Valverde 1986; Wiersema/León 1999; Youdim et al. 2002

TODDALIA Juss. - Rutaceae

Toddalia aculeata (Smith) Pers.

▶ *Toddalia asiatica* (L.) Lam.

Toddalia asiatica (L.) Lam.

Synonyms ▶ *Paullinia asiatica* L., *Toddalia aculeata* (Smith) Pers.; *Toddalia nitida* Lam.

Common Names ▶ Lopez fruit, wild orange tree; *Chinese*: fei long zhang zue; *German*: Lopez-Frucht, Stachelige Toddalie, Chinesische Toddalie; *Indonesian*: areuy beleketebek, duri kengkeng; *Japanese*: sara-kachû, saru-kake-mikan; *Malaysian*: akar kucing; *Pilipino*: dauag, subit, kaboat

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ India: Nilgiri mountains, S China; Taiwan, SE Asia; Mauritius, Madagascar, Seychelles, Comoros, Mascarenes

Note ▶ Substitute for black pepper (*Piper nigrum* L.).

Gurib-Fakim/Brendler 2004; Guzman/Siemonsma 1999; Hiller/Melzig 1999; Seidemann 1993c

Toddalia nitida LAM.

▶ *Toddalia asiatica* (L.) Lam.

Toluifera balsamum L.

▶ *Myroxylon balsamum* (L.) Harms var. *balsamum*

Toluifera balsamum var. **Genuinum** Baill.

▶ *Myroxylon balsamum* (L.) Harms var. *balsamum*

Toluifera pereira Baill.

▶ *Myroxylon balsamum* (L.) Harms var. *pereirae* (Royle) Harms

 Tormentilla erecta L.

➤ *Potentilla erecta* (L.) Räuschel

**TORRESIA Allemão -
Fabaceae (Leguminosae)**

 Torresia cearensis A.C. Smith

Synonyms ▶ *Amburana cearensis* (Fr. Alem.) A.C. Smith

Common Names ▶ *Brazil (Portuguese)*: amburana, cumaru das caatingas, cumaru de cheiro

Usage ▶ flavoring; **product**: essential oil, c(o)umarin

Parts Used ▶ seed, bark

Distribution ▶ Brazil

Kumar 2001; Mors/Rizzini 1961

**TORREYA Arn. - Nutmeg Yew -
Taxaceae**

 Torreya californica Torr.

Synonyms ▶ *Torreya myristica* Hook.

Common Names ▶ California nutmeg, California torrey, California yew; *German*: Kalifornische Muskatnuss, Kalifornische Nusseibe

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ SW USA: Californian coastal region

Note ▶ The fruit has a terebinthic rather than a nutmeg-like aroma and is therefore not a nutmeg surrogate.

Brockmann 1979; Cherry 1997; Erhardt et al. 2002; Gruzman/Siemonsma 1999; Hager 5, 1993; Hiller/Melzig 1999; Rättsch 1998; Teuscher 1993; Warburg 1897; Wiersema/León 1999

 Torreya myristica Hook.

➤ *Torreya californica* Torr.



 **Torreya californica**, fruits

 Torreya taxifolia Arn.

Common Names ▶ Florida nutmeg, stinking cedar, stinking yew, leaved torrey; *German*: Florida Muskatnuss, Florida Nusseibe

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ USA: Florida, Georgia

Note ▶ The fruit has a terebinthic rather than a nutmeg-like aroma and is therefore not a nutmeg surrogate.

Erhardt et al. 2002; Warburg 1897

 Tournefortia argentea L.f.

➤ *Messerschmidia argentea* (L. f.) Johnston

 Toxicodron coriaria Kuntze

➤ *Rhus coriaria* L.

TRACHYSPERMUM Link - Apiaceae (Umbelliferae)

Trachyspermum ammi (L.) Sprague

Synonyms ▶ *Ammi copticum* L., *Bunium aromaticum* L., *Bunium copticum* Spreng., *Carum aromaticum* Spreng., *Carum copticum* (L.) Benth, *Trachyspermum copticum* (L.) Link

Common Names ▶ ajowain, bishop's weed, omum (plant), white cumin, Ethiopian caraway; *Arabic*: kamue muluki, choelle; *French*: ajowan, ammi de l'Inde; *German*: Ajowan, Adjowain, Ajowankümmel, ägyptischer Amm(e)i, Kretischer Kümmel, Schnabelsame; *Hindi*: ajowan, ajvyan; *India*: ajawa omum, ajouan, ajowan; *Malaysian*: mungsi; *Russian*: ashgon, aiowan, koptskij tmin, indijskij tmin, sira; *Sanskrit*: ajamoda, yavani

Usage ▶ spice, condiment for curries, pickles and bread

Parts Used ▶ fruit, seed

Distribution ▶ India, Pakistan, widely cultivated in S Asia, Indonesia, Near East: Jemen, Iran, SE Europe, and N Africa

Note ▶ Trade sorts in India: Desi Ajowain (large) and Nadiad Ajowain (small).

Ahmed I Ijaz et al. 1992; Ashok kumar et al. 1992; Bois 1934; Choudhury et al. 1998; Czupor 1970; Dalby 2000; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Farrell 1985; Galakshmi et al. 2000; Hanelt 2001; Hiller/Menzel 1999; Ilyas 1980; Jansen 1981; Lockwood et al. 2002; Kambouche/El-Abed 2003; Lück 2000; Masoudi et al. 2002; Mehta/Zayas 1995; Morris/Mackley 1999; Norman 1991; Pochljobkin 1974, 1977; Pruthi 1976; Quadry/Atali 1967; Ranade 1997; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shiva et al. 2002; Siewek 1990; Small 1997; Teuscher 2003; Tucker 1986; Uphof 1968; Wagner/Hölzl 1968; Wiersema/León 1999; Zeven/de Wet 1982

Trachyspermum copticum (L.) Link

➤ *Trachyspermum ammi* (L.) Sprague

Trachyspermum involucreatum (Roxb.) Wolff

➤ *Trachyspermum roxburghianum* (DC.) Craib

Trachyspermum roxburghianum (DC.) Craib

Synonyms ▶ *Apium involucreatum* Roxb. ex Flem., *Carum involucreatum* (Roxb.) Baill., *Carum roxburghianum* Benth., *Trachyspermum involucreatum* (Roxb.) Wolff

Common Names ▶ randhuni; *French*: làj mud des Indiens; *Hindi*: ajmud, ajmuda; *Indonesian*: surage, *Javanese*: pletikapu; *Pilipino*: kanuikui, malungkoi, *Thai*: phakchi-lom

Usage ▶ spice, seeds are used as a condiment for curries, chutneys, preserves, and pickles, and as a culinary herb

Parts Used ▶ seeds, herb, leaves

Distribution ▶ India cultivated, and widely cultivated in tropical Asia

Note ▶ The leaves are a culinary herb, a substitute for parsley.

Bois 1934; Davidson 1999; Erhardt et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uphof 1968; Zeven/de Wet 1982

TRECULIA Decne. ex Trecul - African Breadfruit - Moraceae

Treculia africana Decne.

Common Names ▶ African bread fruit, African boxwood; *Cameroon*: boembe, bongo, bwembi, etoup, pusa, ziba; *Congo*: toum, bleblendou; *French*: arbre à pain d'Afrique; *German*: Afrikanische Brot-Frucht, Okwa; *Portuguese*: saquente; *W Africa*: afon

Usage ▶ spice for sauces, soups, meat, and for aromatization of alcoholic drinks

Parts Used ▶ seed

Distribution ▶ tropical Africa, from Senegal to Mozambique, Madagascar

Note ▶ The fruits are cooked in the food and then removed.

Ayensu 1978; Bijttebier 1993; Burkill 4, 1997; Erhardt et al. 2002; Giami et al. 2000; Hanelt 2001; Lück 2000; Neuwinger 1999;

Schultze-Motel 1986; Seidemann 1995e; Täufel et al. 1993; Uphof 1968; Usher 1974; Wiersema/León 1999

TRIANTHEMA L. - Aizoaceae

Trianthema hydaspacea Edgew.

Usage ▶ pot-herb (in India)

Parts Used ▶ leaf

Distribution ▶ NW India

Arora/Pandey 1996

TRIBULUS L. - Zygophyllaceae

Tribulus alatus Delile

Common Names ▶ caltrap; *French*: herse; *German*: Geflügelter Burzeldorn; *Hindi*: gokhru-kalan; *Russian*: jakorzi

Usage ▶ pot-herb

Parts Used ▶ young plant

Distribution ▶ NW India

Arora/Padney 1996; Ratsch 1998

Trifolium album Lois.

▶ *Melilotus albus* Medik.

Trifolium altissimum Lois.

▶ *Melilotus altissimus* Thuill.

Trifolium coeruleum Moench

▶ *Trigonella caerulea* (L.) Sér.

Trifolium corniculata L.

▶ *Trigonella corniculata* (L.) L.

Trifolium officinalis L.

▶ *Melilotus officinalis* Lam.

Trifolium petitpierreanum Hayne

▶ *Melilotus officinalis* Lam.

Trifolium vulgare Hayne

▶ *Melilotus albus* Medik.

TRIGONELLA L. - Fenugreek - Fabaceae (Leguminosae)

Trigonella arabica Delile

Synonyms ▶ *Trigonella pecten* Schenk

Common Names ▶ Arabian fenugreek; *German*: Arabischer Bockshornklee

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ N Africa, especially in Arabia, Syria to NE Egypt

Agarwal 1986; Hanelt 2001; Wealth of India 10, 1976

Trigonella caerulea (L.) Sér.

Synonyms ▶ *Melilotus caeruleus* Desr., *Trifolium caeruleum* Moench., *Trigonella melilotus caerulea* (L.) Aschers. et Graebn.

Common Names ▶ sweet trifol; *French*: baumier, mélilot bleu; trèfle blau, trèfle musque, trèfle odorant; *German*: Balsamklee, Bisamklee, Blauer Steinklee, Käseklee, Schabziegerklee, Zigeunerkelee; *Italian*: melilotto azzurro; *Russian*: donnik cinij, goluboj

donnik, pashitnik goluboj, gun'ba, sinij kosij tri-listnik

Usage ► spice (cheese and bread)

Parts Used ► seed, herb

Distribution ► E Mediterranean region, SE Europe; origin in the Mediterranean region, also cultivated and native

Note ► classified into a wild (ssp. *procumbens*) and a cultivated subspecies (ssp. *caerulea*).

Aichele/Schwegler 2, 1994; Berger 4, 1954; Bois 1934; Davidson 1999; Dudtschenko et al. 1989; Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Hoppe 1949; Pochljobkin 1974, 1977; Seidemann 1993c; Täufel et al. 1993; Teuscher 2003; Wiersema/León 1999; Zeven/de Wet 1982



Trigonella caerulea (L.) Sér. ssp. caerulea

Common Names ► sweet trefoil; *French*: baumier, trèfle bleu, trèfle musqué, trèfle odorant; *German*: Balsamklee, Blauer Steinklee, Schabziegerklee; *Italian*: balsamo, meliloto azzurro, *Russian*: pashitnik goluboj

Usage ► spice, condiment, flavoring

Parts Used ► herb

Distribution ► C, W and S Europe, N Africa, widely cultivated in gardens

Note ► The dried pulverized herb is used for the preparation or greenish herb cheese and for flavoring bread and other dishes. This species is classified into a wild (ssp. *procumbens*) and a cultivated subspecies (ssp. *caerulea*).

Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Seidemann 1993c; Zeven/de Wewt 1982



Trigonella corniculata (L.) L.

Synonyms ► *Medicago corniculata* (L.) Trautv., *Trifolium corniculata* L.

Common Names ► clustered trefoil; *German*: Traubiger Bockshornklee; *Hindi*: kasuri methi; *Sanskrit*: malya, piring sak

Usage ► spice, pot-herb

Parts Used ► seed

Distribution ► Mediterranean region, Near East countries



■ **Trigonella foenum-graecum: a flowering, b seeds**

Agarwal 1986; Erhardt et al. 2002; Hanelt 2001; Heeger 1956; Man-

sfield 1986; Täufel et al. 1993; Teuscher 2003; Wealth of India 10, 1976

Tainter/Grenis 1993; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Wiersema/León 1999; Wyk et al. 2004; Zeven/de Wet 1982

Trigonella esculenta Willd.

➤ *Trigonella corniculata* (L.) L.

Trigonella foenum-graecum L.

Synonyms ▶ *Foenum-graecum officinale* Moench, *Trigonella graeca* St. Lag.

Common Names ▶ fenigrec, fenugreek, goat's horn, Greek clover, Greek hay-seed; *Arabic*: helbeh, hulbah; *Chinese*: hu lu ban; *Dutch*: fenegriek; *French*: fénu-grec, foin grec, sénégrain, senegré, trigonelle; *German*: Griechischer Bockshornklee; Griechisches Heu, Kuhhorn, Kuhhornklee; Ziegenhornklee; *Hindi*: methi; *India*: methi ni bhaji; *Indonesian*: kelabet, klabet; *Italian*: fieno greco; *Korean*: horopha, khünnorangkotjariphul; *Malaysian*: halba, kelabat; *Portuguese*: fenacho, fenogreco; *Russian*: fenugrek, ili pashitnik, fenum-grek, fenigrekowa trawa, gretscheskoe seno, kosij trilistnik; *Sanskrit*: methi, methika, pitabija; *Slovenian*: senovka gréčka; *Spanish*: alholva, fenogreco, heno griego, *Turkish*: çemen otu; boui tochouma

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ Caucasus, Ex-Soviet Union, C Asia, E Europe, cultivated and native elsewhere

Note ▶ Often classified into varieties *hausknechtii* Sierjaev and provar. *foenum-graecum*. Pre-historic remains from 4000–3000 BC in the Near East. Seeds preserved in Tutankhamun's tomb (1325 BC).

Aichele/Schwegler 2, 1994; Alagukannan et al. 1999; Bendel 2002; Bilgri/Adam 2000; Billaud/Adrian 2001; Bois 1934; Bremness 2001; Charalambous 1994; Clair 1961; Coiciu/Racz (no year); Craze 2002; Dastur 1954; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Erhardt et al. 2002; Farrell 1985; Faril/Hardman 1968; Girardon et al 1986; Gupta et al. 1986; Guzman/Siemonsma 1999; Hanelt 2001; Heeger 1956; Hepper 1992; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Kamal et al. 1987; Mazza/Oomah 2000; Morris/Mackley 1999; Newall et al. 1996; Norman 1991; Pochljobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rosengarten; Rouk/Mengesha 1963; Schenck/Naundorf 1966; Schönfelder 2001; Seidemann 1993c; Seidemann/Siebert 1987; Shalini Hooda/Sudesh Jood 2003; Sharma 2003; Siewek 1990; Small 1997; Staesche 1972;

Trigonella graeca St. Lag.

➤ *Trigonella foenum-graecum* L.

Trigonella melilotus caerulea Aschers. et Graebn.

➤ *Trigonella caerulea* (L.) Sér.

Trigonella pecten Schenk

➤ *Trigonella arabica* Delile

Trigonella stellata Forsk.

Common Names ▶ *German*: Stern-Bockshornklee

Usage ▶ spice (rarely); **product**: essential oil

Parts Used ▶ seed, herb

Distribution ▶ N Africa: Arabia, Egypt, Tunisia, Algeria, Morocco, Canary Islands; W Asia: Iran, Iraq, Middle East, Israel, Lebanon, Kuwait

TRIPHASIA Lour. - Lime berry - Rutaceae

Triphasia aurantiola Lour.

➤ *Triphasia trifolia* (Burm.f.) P. Wilson

Triphasia trifolia (Burm.f.) P. Wilson

Synonyms ▶ *Limonia trifolia* Burm., *Limonia trifoliata* L., *Triphasia aurantiola* Lour.

Common Names ▶ lime berry, trifoliate lime, Chinese lime, myrtle lime; *Hindi*: chini naranghi; *Malaysian*: kelingket, limau kiah, limau kingkit; *Pilipino*: kalamansito, limoncito, sua-sua, tagimunau; *Spanish*: limoncito; *Thai*: manao tet

Usage ▶ succade (flavoring)

Parts Used ▶ fruit

Distribution ▶ tropical Asia, cultivated in many subtropical and tropical countries

Erhardt et al 2002; Hanelt 2001; Schultze-Motel 1986

TRITONIA Ker.-Gawl. Tritonia - Iridiaceae

Tritonia aurea (Hook.) Planch.

Synonyms ▶ *Crocasmia aurea* (Pappe ex Hook.) Planch.

Common Names ▶ flame freesia, Cape saffron; *German*: Safranartige Tritonie, Kap-Safran

Usage ▶ spice

Parts Used ▶ flower

Distribution ▶ South Africa: Capeland

Note ▶ This plant frequent with *Crocasmia aurea* (Pappe ex Hook.) Planch.

Erhardt et al. 2002; Seidemann 2003

Tritonia x crocosmiiflora (Burbridge et Dean) N.E. Br.

▶ *Crocasmia crocosmiiflora* (Lemoine ex E. Morr.) N.E. Br.

Tritonia crocata (L.) Ker-Gawl.

▶ *Crocasmia aurea* Planch.

TROPAEOLUM L. - Nasturtium - Tropaeolaceae

Tropaeolum dentatifolium Stokes

▶ *Tropaeolum minus* L.

Tropaeolum elatum Salisb.

▶ *Tropaeolum majus* L.



■ **Tropaeolum majus, flowering**

Tropaeolum majus L. ■

Synonyms ▶ *Tropaeolum elatum* Salisb., *Tropaeolum repandifolium* Stokes

Common Names ▶ Indian cress, (common) nasturtium, tall nasturtium; *Chinese*: chin lien hua, han lian hua; *French*: capucine grande, cresson d'Inde, cresson du Pérou, capucine; *German*: Große Kapuzinerkresse, Indianerkresse, Salatblume, Türkische Kresse; *Italian*: nasturzio comune, cappuccina, fior, crescione del Perú; *Japanese*: nasutachûmu, kinrenka, nôzen haren; *Portuguese*: chagas, mastrução do Perú, flor de sangue, capuchinha grande; *Russian*: kapuzin, kapuzin-kress, indejckij kress; nasturzija; *Spanish*: capuchina, nasturcio, mastranzo de las Indias, Ilagas de Cristo

Usage ▶ substitute for capers (buds); flavoring leaves and ornamental flowers for salads

Parts Used ▶ bud, leaf, flower

Distribution ▶ S America: Columbia, Ecuador, Peru; cultivated in numerous countries

Aichele/Schwegler 3, 1995; Bendel 2002; Berger 1, 1949; Bois 1934; Bremness 2001; Chamisso 1987; Cheers 1998; Davidson 1999; Dudtschenko et al. 1989; Eichhorn/Winterhalter 2004; Erhardt et al. 2002; Fleischhauer 2003; Franz 1996; Halbeisen 1954; Hanelt 2001; Hiller/Melzig 1999; Lewington 1990; Lück 2000; Lykkesfeldt/Lindberg-Møller 1993; Pochljobkin 1974, 1977; Pschyrembel 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993; Seide-

mann/Siebert 1987; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Villamar et al. 1994; Wiersema/León 1999; Wolters 1994; Wyk et al. 2004; Zeven/de Wet 1982

***Tropaeolum minus* L.**

Synonyms ▶ *Tropaeolum dentatifolium* Stokes, *Tropaeolum pulchellum* Salisb.

Common Names ▶ bush nasturtium, dwarf nasturtium, Indian cress; *French*: capucine; *German*: Kleine Kapuzinerkresse

Usage ▶ spice (locally); **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ NW Latin America: Ecuador, Peru, also cultivated

Erhardt et al. 2002; Franz 1996; Hanelt 2001; Schultze-Motel 1986; Small 1997; Wiersema/León 1999

***Tropaeolum mucronatum* Meyen**

▶ *Tropaeolum tuberosum* Ruiz et Pav.

***Tropaeolum pulchellum* Salisb.**

▶ *Tropaeolum minus* L.

***Tropaeolum repandifolium* Stokes**

▶ *Tropaeolum majus* L.

***Tropaeolum tuberosum* O. Kuntze**

▶ *Tropaeolum tuberosum* Ruiz. et Pav.

***Tropaeolum tuberosum* Ruiz et Pav.**

Synonyms ▶ *Tropaeolum mucronatum* Meyen, *Tropaeolum tuberosum* O. Kuntze

Common Names ▶ bulbous nasturtium, tuberous nasturtium; *Chinese*: kuai jing lzan hua; *Dutch*: knof, Oostindische kers; *French*: capucine tubéreuse; *German*: Knollenkresse, Knollen-Kapuziner-kresse,

Peruanische Kapuzinerkresse, Maca; *Italian*: nasturtio tuberoso; *Portuguese*: capuchinha tuberosa; *S America*: anu, maca, magua, mashua, maxua; *Spanish*: capuchina tuberosa, mashua, ysaño

Usage ▶ pot-herb

Parts Used ▶ young leaves

Distribution ▶ Bolivia, Peru; cultivated in the Andes of Chile to Columbia

Note ▶ In the Andes the edible rhizome tubers are cultivated

Cheers 1998; Erhardt et al. 2002; Hanelt 2001; Johns et al. 1982; Ramallo et al. 2004; Schultze-Motel 1986; Seidemann 2003; Small 1997; Täufel et al. 1993; Wiersema/León 1999; Zeven/de Wet 1982

TULBAGHIA L. - Society Garlic - Alliaceae (Liliaceae)

***Tulbaghia violacea* Harv.**

Common Names ▶ society garlic, wild garlic, wild knoflook; *Dutch*: wilde knoflok, wilde knoffel; *German*: Knoblauchs-Kapililie, Veilchenblütiger Knoblauch, Zimmerknoblauch, Zimmerschnittlauch

Usage ▶ spice (locally)

Parts Used ▶ leaf

Distribution ▶ S Africa

Note ▶ The taste is like garlic. The Zulu of Natal often plant this species around their huts.

Cheers 1998; Davidson 1999; Erhardt et al. 2002; Small 1997; Teubner 2001; Wyk 1997; Zeven/de Wet 1982

TURNERIA L. - Turneraceae

***Turneria aphrodisiaca* G.H. Ward**

▶ *Turneria diffusa* Willd. ex Schult.

***Turneria diffusa* Willd. ex Schult.**

Synonyms ▶ *Turnera aphrodisiaca* G.H. Ward, *Turnera microphylla* Desv. ex Ham.

Common Names ▶ damiana, Mexican holly; *French*: damiana, thé bourrique; *German*: Schmalblättrige Damiana, Damianastrauch; *Italian*: damiana; *Mexico*: chac-mixib, chat; *Portuguese*: damiana; *Spanish*: damiana de Guerrero, misibcoc, hierba de la pastora

Usage ▶ flavoring (sweets, candy, liqueur among other drinks: 'Guadalajara' (*Mexico*))

Parts Used ▶ fruit

Distribution ▶ subtropical S America Mexico, Caribbean, Meso-America

Note ▶ Already in use by the Maya.

Alberts/Muller 2000; Auterhoff/Hänsel 1968; Berger 2, 50; Charalambous 1994; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Mors et al. 2000; Newall et al. 1996; Ochoa/Alonso 1996; Pschyrembel 1998; Rätsch 1992; 1998; Spencer/Seigler 1980; Täufel et al. 1993; Villamar et al. 1994; Wiersema/León 1999; Wyk et al. 2004



Turneria microphylla Desv.

▶ *Turneria diffusa* Willd. ex Schult.



Tylostemon mannii Staph.

▶ *Beilschidia mannii* (Meisn.) Benth. et Hook. f.

TYPHA L. Bullrush, Reedmace - Typhaceae



Typha latifolia L.

Synonyms ▶ *Typha angustifolia* A. Rich., *Typha major* Curtis

Common Names ▶ bullrush, cat tail, marsh beetle, reed-mace; *French*: massette à feuilles étroites, jonc de marais, quenoille; *German*: Breitblättriger Rohrkolben, Echter Rohrkolben; *Italian*: bido, sala, schiancia, stianca; *Russian*: rogos; *Spanish*: enea junco

Usage ▶ spice of pancake (doughnut)

Parts Used ▶ pollen

Distribution ▶ Europe, Caucasus, Iran, W, E Siberia, C Asia, Mongolia, N China, N America, Australia

Hanelt 2001; Hepper 1992; Mansfeld 1962; Schultze-Motel 1986; Stewart 1978

U

ULVA L. Ulvaceae (Chlorophytae)

Ulva compressa L.

- Synonyms** ▶ *Enteromorpha compressa* (L.) Grev.
Common Names ▶ bowel seaweed; *Chinese*: kan-thai;
German: Darmtang; *Japanese*: hira-ao-nori
Usage ▶ spice (for fish and meat)
Parts Used ▶ thalli
Distribution ▶ E Asia, cultivated in Japan
Note ▶ “Awonori” and “Okashi” are typical *Ulva* commercial products.

Hanelt 2001; Schultze-Motel 1986

UMBELLULARIA (Nees) Nutt. – California Bay or Laurel - Lauraceae

Umbellularia californica (Hook. et Am.) Nutt.

- Common Names** ▶ California bay, California laurel, pepper wood, headache tree, Oregon myrtle; *German*: Berglörbe, Kalifornischer (Berg-)Lorbeer, Oregon-Myrte
Usage ▶ condiment (use sparingly)
Parts Used ▶ leaf
Distribution ▶ NW and SW USA (California, Oregon)
Note ▶ Substitute for laurel, specially by the Hispanic inhabitants of America.

Bois 1932; Cheers 1998; Erhardt et al. 2002; Hiller/Melzig 1999; Small 1997; Tucker 1986; Uphof 1968

UNCARIA Schreb. - Gambier - Rubiaceae

Uncaria acida O. Kuntze

- ▶ *Uncaria gambir* (Hunter) Roxb.

Uncaria gambir (Hunter) Roxb.

- Synonyms** ▶ *Uncaria acida* O. Kuntze
Common Names ▶ gambir, gambier, pale catechu; *Chinese*: kou teng, tiao teng; *French*: gambier; *German*: Gambirpflanze, Betelbissen, Gelbes Katchu; *Malaysian*: gambir
Usage ▶ flavoring
Parts Used ▶ leaf and twig; **product**: juice (by boiling)
Distribution ▶ Malaysia, Sumatra, W Borneo, also cultivated in Indonesia
Note ▶ Thalli are extracted, thickened and dried (= gambir, gambir catechu).

Charalambous 1994; Erhardt et al. 2002; Hager 4, 1992; Hanelt 2001; Hiller/Melzig 1999; Mabberly 1997; Schenck/Nauendorfer 1966; Schultze-Motel 1986; Täufel et al. 1993; Uphof 1968; Wiersema/León 1999; Zeven/de et 1982

UNDARIA W.F.R.Suringar - Alariaceae

Undaria distans Miyabe et Okamura

➤ *Undaria pinnatifida* (W.H. Harvey) W.F.R. Suringar

Undaria pinnatifida (W.H. Harvey) W.F.R. Suringar

Synonyms ▶ *Alaria pinnatifida* Harvey, *Undaria distans* Miyabe et Okamura

Common Names ▶ wakame; *Chinese*: qun dai cai; *German*: Flügeltang; *Japanese*: kada-me, niki-me, wakame;

Usage ▶ spice, specially of rice

Parts Used ▶ thallus, fresh and dry

Distribution ▶ commercial cultivated in Japan, Korea, China

Note ▶ This is the most significantly cultivated *Undaria*-species.

Davidson 1999; Hanelt 2001; Jurkovic et al. 1995; Lück 2004; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Urbano/Goñi 2002

Undaria undarioides (Yendo) Okamura

Synonyms ▶ *Hirome undarioides* Yendo

Common Names ▶ hiroma; *German*: Japanischer Flügeltang; *Japanese*: hirome

Usage ▶ spice for rice

Parts Used ▶ thallus

Distribution ▶ Japan, Korea, China

Hanelt 2001; Schultze-Motel 1986

Unona aethiopica Dun.

➤ *Xylopia aethiopica* A. Rich.

UROPHYLLUM Jack ex Wall. - Rubiaceae

Urophyllum arboreum (Reinw. ex Bl.) Korth.

Common Names ▶ *Indonesian*: ki cengkeh

Usage ▶ spice

Parts Used ▶ bruised leaves

Distribution ▶ W Java

Note ▶ The odor smells strongly of cloves.

Guzman/Siemonsma 1999; Hiller/Melzig 1999

Urtica melastomoides Poir.

➤ *Pilea melastomoides* (Poir.) Wedd.

Uvaria aromatica Lam.

➤ *Xylopia aromatica* (Lam.) Mart.

Uvaria odorata Lam.

➤ *Cananga odorata* (DC.) Hook.f. et Thoms.

VACCARIA Wolf - Cow herb - Caryophyllaceae

Vaccaria hispanica (Mill.) Rauschert

Synonyms ▶ *Saponaria vaccaria* L., *Vaccaria pyramidata* Medik., *Vaccaria vulgaris* Host.

Common Names ▶ cow cockle, cow herb, dairy pink;
Arabic: foul el-'arab; *Chinese*: wang pu liu hsing;
French: herbe aux vaches, saponaire des vaches;
German: Kuhkraut; *Russian*: tysjatschegolov

Usage ▶ spice

Parts Used ▶ herb

Distribution ▶ Europe, Levante, Turkey, Iran, temperate Asia; Mongolia, China, N Africa; native in N America, Australia

Erhardt et al. 2002; Fleischhauer 2003; Schnelle 1999; Wiersema/León 1999

Vaccaria pyramidata Medik.

➤ *Vaccaria hispanica* (Mill.) Rauschert

Vaccaria vulgaris Host.

➤ *Vaccaria hispanica* (Mill.) Rauschert

VALERIANA L. Valerian - Valerianaceae

Valeriana celtica L.

Common Names ▶ Celtic nard, Celtic valerian; *German*:
Echter Speik, Keltischer Baldrian, Keltische Narde,
Gelber or Roter Speik

Usage ▶ flavoring

Parts Used ▶ root

Distribution ▶ S, W Europe: Austria, France, Italy and
the Swiss Alps

Dalby 2000; Heeger 1956; Hiller/Melzig 1999; Uphof 1968

Valeriana officinalis L.

Synonyms ▶ *Valeriana pinnata* Gilib., *Valeriana sylvestris* Sadl., *Valeriana vulgaris* Rupr.

Common Names ▶ all-heal, common valerian, garden valerian, cat's valerian, setwall, valerian; *Chinese*: xie cao; *French*: herbe aux chats, guérirtout, valériane (officinale); *German*: Arznei-Baldrian, Baldrian, Gewöhnlicher Baldrian, Katzenwurzel; *Italian*: amantilla, erva gatta, valeriana, valeriana silvestre; *Japanese*: kanakoso, kesso; *Korean*: yakpagu-niamul; *Russian*: valeriana aptetschnaja; *Spanish*: valeriana (mayor)

Usage ▶ spice (rarely), flavoring; **product**: essential oil; (rarely in the liqueur industry)

Parts Used ▶ root

Distribution ▶ Europe, native and cultivated, Asia

Note ▶ The root was used as a condiment during medi-

eval times, and as a perfume during the XVI Century. At present it is used as a perfume in some oriental countries.

Aichele/Schwegler 3, 1995; Alberts/Muller 2000; Becker 1983, 1986; Bos et al. 1997; Bremness 2001; Cheers 1998; Clair 1961; Coiciu/Racz o. J.; Dudtschenko et al. 1989; Erhardt et al. 2000, 2002; Hanelt 2001; Hänsel/Schulz 1982; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hohmann et al. 2001; Honerlagen 1988; Hoppe 1949; Houghton 1988, 1994; Mayer 2003; Mazza/Ohham 2000; Newall et al. 1996; Pschyrembel 1998; Rätsch 1998; Roth/Kormann 1997; Schier/Schultze 1989; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Titz/Titz 1982; Tucker 1986; Wagner et al. 1970; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Zeven/de Wet 1982

Valeriana pinnata Gilib.

➤ *Valeriana officinalis* L.

Valeriana sisymbriifolia Schur.

Synonyms ▶ *Valeriana tripteris* L.

Common Names ▶ Syrian nard; *German*: Syrische Narde, Narde

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf

Distribution ▶ Turkey: Anatolia; Caucasus, Iran, Syria; C Asia

Valeriana sylvestris Sadl.

➤ *Valeriana officinalis* L.

Valeriana tripteris L.

➤ *Valeriana sisymbriifolia* Schur.

Valeriana vulgaris Rupr.

➤ *Valeriana officinalis* L.

Valerianoides jamaicensis (L.) Medic.

➤ *Stachyterpheta jamaicensis* Vahl

VANILLA Mill. - Vanilla - Orchidaceae

Vanilla abundiflora J.J. Sm.

Common Names ▶ Indonesian vanilla; *German*: Indonesische Vanille

Usage ▶ flavoring, like *Vanilla planifolia* Andr.

Parts Used ▶ fruit

Distribution ▶ Indonesia: Borneo; sporadically cultivated

Guzman/Siemonsma 1999; Hanelt 2001; Schultze-Motel 1986; Seidemann 1993c; Täufel et al. 1993; Uphof 1968

Vanilla albida Bl.

Synonyms ▶ *Vanilla griffithii* Rchb.f.

Common Names ▶ white vanilla; *German*: Weiße Vanille

Usage ▶ spice (locally)

Parts Used ▶ fruit

Distribution ▶ India, Thailand, Malaysia, Sumatra, Java; also cultivated

Hanelt 2001; Schultze-Motel 1986; Täufel et al. 1993

Vanilla aphylla Bl.

Common Names ▶ Java vanilla; *German*: Java-Vanille

Usage ▶ spice (locally)

Parts Used ▶ fruit

Distribution ▶ Myanmar, Malaysian Peninsula, Java

Erhardt et al. 2002

Vanilla aromatica Willd.

➤ *Vanilla planifolia* Andr.

 Vanilla fragrans (Salisb.) Ames

➤ *Vanilla planifolia* Andr.

 Vanilla gardneri Rolf.

Common Names ▶ Brazil vanilla, Bahia vanilla, South American vanilla, Vanilla of Bahia; *German*: Brasilianische Vanille

Usage ▶ spice (locally)

Parts Used ▶ fruit

Distribution ▶ cultivated In Brazil

Guzman/Siemonsma 1999; Hoppe 1, 1977; Seidemann 1993c; Täufel et al. 1993; Uphof 1968

 Vanilla grandiflora Lindl.

➤ *Vanilla pompona* Schiede

 Vanilla griffithii Rchb.f.

➤ *Vanilla albida* Blume

 Vanilla guianensis Splitg.

➤ *Vanilla pompona* Schiede

 Vanilla lutescens Moq.

➤ *Vanilla pompona* Schiede

 Vanilla mexicana P. Miller

➤ *Vanilla planifolia* Andr.

 Vanilla palmarum Lindl.

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Guyana, Brazil

Bois 1934

 Vanilla phaeantha Rchb.f.

Synonyms ▶ *Vanilla planifolia* Griseb.

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ origin: Cuba; St. Vincent, Florida, Bahamas, Antilles to Trinidad, Antilles also cultivated

Note ▶ Aldurant for *Vanilla planifolia* G. Jacks.

Bois 1934; Guzman/Siemonsma 1999; Schultze-Motel 1986; Uphof 1968; Wiersema/León 1999

 Vanilla planifolia Andr.

Synonyms ▶ *Vanilla aromatica* Willd.; *Vanilla fragrans* (Salisb.) Ames; *Vanilla mexicana* P. Miller, *Vanilla planifolia* G. Jacks., *Vanilla viridiflora* Bl.

Common Names ▶ Bourbon vanilla, Mexican vanilla, vanilla, vanilla fruit; *Arabic*: wanila; *Chinese*: hsiang ts'ao; *French*: vanille, vanille de Mexique, vanillier; *German*: (Echte) Vanille, Bourbon-Vanille, Vanille, Vanillefrucht, Vanilleschote (wrongly!); *Indonesian*: panila; *Italian*: vaniglia, vainiglia; *Japanese*: bauira; *Mexico*: siisbik, tlilxochitl; *Pilipino*: vanilla; *Portuguese*: baunilha; *Russian*: vanil'; *Slovenian*: vanilka; *Spanish*: vainilla, vainillero, lixóchitl, vainil (Mexico); *Thai*: wanila

Usage ▶ spice; **product**: (natural) vanillin

Parts Used ▶ fruit

Distribution ▶ Mexico to S America, West Indies, Mexico ; probably native elsewhere in C and S America, also widely cultivated in Sri Lanka

Note ▶ "Tlilxochitl" is the Aztec word for vanilla, meaning black pod. Trade sorts: Bourbon vanilla, Mexican vanilla, Tahiti vanilla, Java vanilla, Ceylon vanilla and the qualities: extra fine, fine, mifine and fendue extra.

Acat/Acat 2003; Adeji et al. 1993; Alberts/Muller 2000; Anklam/Müller 1993; Arana 1943; Archer 1989; Arnaud et al. 1981; Bergeron 1980; Bois 1934; Boisvert/Hubert 2000; Bouriguet 1954; Braatz/Lembke 1990; Bricout et al. 1974; Burkill 4, 1997; Busenberg et al. 1994; Busse 1899; Chadwick/Pope 1961; Cheers 1998; Correll 1953; Craze 2002; Dalang et al. 1982; Dalby 2000; Dauer 2002; Davidson 1999; Deltail 1897; Dignum et al. 2002, 2004; Dudtschenko et al. 1989; Duke et al. 2003; Ehlers 1999; Ehlers/Bartholomae 1993;



■ **Vanilla planifolia** Andr., flowering

Ehlers et al. 1994, 1995, 1999; Erhardt et al. 2002; Farrell 1985; Fayette et al. 1989; Fellous et al. 1992; Fraisse et al. 1984; Galetto/Hoffmann 1978; Guzman/Siemonsma 1999; Hanelt 2001; Hanum 1997; Hiller/Melzig 1999; Hoffmann W. (no year); Hoppe 1949; Kahan 1989; Kanisawa 1993; Kaunzinger et al. 1996; Kleinert 1963; Klimes/Lamparsky 1976; Klont 2000; Lambrecht et al. 1994; Leong et al. 1989a, b; Lewington 1990; Lhuguenol 1978; Maubert et al. 1988; Melchior/Kastner 1974; Morrell/Mackley 1999; Mosandl A. 1995; Norman 1991; Nguyen et al. 1991; Oberdieck 1998; Ochse et al. 1961; Odoux 2000; Pochljobkin 1974, 1977; Pruthi 1976; Ramachandra Rao/Ravishankar 2000; Ramaroson-Raonizafinimanana et al. 1997; Ranadive 1992; Ray et al. 1980; Rosengarten 1969; Roth/Kormann 1997; Rust 2003; Scharrer 2002; Scharrer/Mosandl 2001; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c, 1998/2000; Seidemann/Siebert 1987; Shiva et al. 2002; Siewek 1990; Small 1997; Staesche 1972; Tabacchi et al. 1978; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Vaupel 2002a, b, c; Villamar et al. 1994; Webster 1995; Westermann 1909; Wiersema/León 1999; Wildeisen 2001; Wildeman 1902; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982



■ **Vanilla planifolia** Andr., fruiting



Vanilla planifolia G. Jacks. f. **gigantea** Hoehne

Common Names ► great vanilla; *Brazil*: vanilão; *German*: Große Vanille, Riesenvanille

Usage ► spice (locally)

Parts Used ► fruit

Distribution ► Mexico to S America (Brazil)

Hoppe 1, 1977; Mors/Rizzini 1961; Schultze-Motel 1986



Vanilla planifolia Griseb.

► *Vanilla phaeantha* Rchb.



Vanilla planifolia G. Jacks.

► *Vanilla planifolia* Andr.



Vanilla pompona Schiede

Synonyms ▶ *Vanilla grandiflora* Lindl., *Vanilla guianensis* Splitg., *Vanilla lutescens* Miq., *Vanilla surinamensis* Rchb.

Common Names ▶ Pompon vanilla, West Indian vanilla; *French*: vanillon; *German*: Antillen-Vanille, Guadeloupe-Vanille, Pompon-Vanille, Vanillon, West-indische Vanille

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ C America, SE Mexico, tropical North S America

Note ▶ The use of the fruits is predominantly in the perfumery and tobacco industries.

Adedeji et al. 1993; Bois 1934; Davidson 1999; Ehlers/Pfister 1997; Erhardt et al. 2002; Hoffmann (no year); Hoppe 1, 1977; Melchior/Kastner 1974; Ochse et al. 1961; Pruthi 1976; Rey et al. 1980; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wildeisen 2001; Zeven/de Wet 1982



Vanilla surinamensis Reichb.

▶ *Vanilla pompona* Schiede



Vanilla sylvatica McFarlane

▶ *Vanilla tahitensis* J.W. Moore



Vanilla tahitensis J.W. Moore

Synonyms ▶ *Vanilla sylvatica* McFarlane

Common Names ▶ Tahitan vanilla; *French*: vanille de Tahiti, vanille de Tiarei; *German*: Tahiti-Vanille; *Tahiti*: haapae, papanoe, teriira, tiarei

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Tahiti, native Hawaii; only cultivated Réunion, Mauritius

Note ▶ The fruits have a lower vanillin content, but the aroma is sweeter; best suited for cosmetics.

Adedeji et al. 1993; Davidson 1999; Ehlers et al. 1994; Erhardt et al. 2000, 2002; Guzman/Siemonsma 1999; Hiller/Melzig 1999; Hoppe 1977; Jack 1940; Lhuguenol 1978; Melchior/Kastner 1974; Ochse

et al 1961; Pruthi 1976; Ramaroson-Raonizafinimanan et al. 1997; Rey et al 1980; Scharrer 2002; Schröder 1991; Schultze-Motel 1986; Seidemann 1993c; Siewek 1990; Staesche 1972; Tabacchi et al. 1978; Täufel et al. 1993; Teuscher 2003; Wiersoma/León 1999



Vanilla viridiflora Bl.

▶ *Vanilla planifolia* Andr.

VERBASCUM L. Mullein - Scrophulariaceae



Verbascum densiflorum Bertol.

Synonyms ▶ *Verbascum thapsiflorum* Schrad.

Common Names ▶ large flowered mullein, common mullein; *French*: bouillon blanc, fleur de St. Pierre, molène, *German*: Großblütige Königskerze, Großblütige Wollblume; *Italian*: bouillon blanc, verbasco maschio, tasso verbasso, candela della madonna, candela regia; *Korean*: pelpasücho; *Russian*: (korowjak) medwesh'e ucho; *Spanish*: gordolobo (común), verbasco

Usage ▶ flavoring (in the liqueur industry)

Parts Used ▶ flower

Distribution ▶ Caucasus, W Asia, Europe, native elsewhere

Aichele/Schwenker 4, 1995; Berger 1, 1949; 2, 1950; Bremness 2001; Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hohmann et al. 2001; Hoppe 1949; Kraus/Franz 1987; Pschyrembel 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Swiatek et al. 1982; Wiersema/León 1999; Wüstenfeld/Haensel 1964; Zeven/de Wet 1982; Zwingenberger 1938



Verbascum phlomoides L.

Common Names ▶ clasping mullein, orange mullein; *French*: bouillon blanc, molène faux-phlomis; *German*: Filz-Königskerze, Windblumen-Königskerze; *Italian*: barbarasco

Usage ▶ flavoring (especially in the liqueur industry)

Parts Used ▶ flower

Distribution ▶ temperate Asia, Europe, native elsewhere

Aichele/Schwenker 4, 1995; Bärtels 1997; Berger 1, 1949; 2, 1950;

Erhardt et al. 2002; Fleischhauer 2003; Hanelt 2001; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Kraus/Franz 1987; Pápay et al. 1980; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Tschesche et al. 1980; Uphof 1968; Wiersema/León 1999; Wyk et al. 2004; Zwingenberger 1938



Verbascum thapsiflorum *Schrad.*

➤ *Verbascum densiflorum* Bertol.

VERBENA L - Vervain, Verbena - Verbenaceae



Verbena jamaicense *L.*

➤ *Stachytarpheta jamaicensis* Vahl



Verbena javanica *Burm.f.*

➤ *Lipkea javanica* (Burm.f.) Spreng.



Verbena officinalis *L.*

Common Names ▶ common verbena, European vervain, lemon scented verbena, Simpler's joy, turkey grass, vervain; *Arabic*: ben nout, tronjia; *Chinese*: ma bian cao, ma pien tsao; *French*: citronelle, verveine, verveine odorante, verveine officinelle, herbe sacrée, herbe aux sorciers; *German*: Echtes Eisenkraut, Echte Verbene, Heiligkraut, Zitronen-Verbene; *Italian*: cedrina, verbenia; *Japanese*: kumatsuzura; *Russian*: verbenia; *Spanish*: verbenia, verba de la princesa

Usage ▶ flavoring; **product**: essential oil

Parts Used ▶ leaf, herb

Distribution ▶ N Africa, temperate Asia, India, Europe, native worldwide

Note ▶ The essential oils are used as an alternative for lemon grass oil (*Cymbopogon citratus* [DC. ex Nees] Stapf), *Cymbopogon flexuosus* [Steud.] Stapf).

Aichele/Schwenker 4, 1995; Berger 4, 1954; Bremness 2001; Charalambous 1994; Cheers 1998; Clair 1961; Davidson 1999;

Dudtschenko et al. 1989; Ehrhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Hoppe 1949; Neweall et al. 1996; NICBPB 1987; Rajendran/Daniel 2002; Rätsch 1998; Schönfelder 2001; Schultze-Motel 1986; Sharma 2003; Täufel et al. 1993; Uphof 1968; Weber 1995; Wyk et al. 2004

VERNONIA Schreb. - Ironweed, Veronia - Asteraceae (Compositae)



Vernonia albicans *Lees*

➤ *Vernonia cinerea* Less.



Vernonia amygdalina *Delile*

Common Names ▶ almond veronia, bitter leaf; *Dutch*: bitterblad; *French*: vernonie; *German*: Bittere Veronie, Mandel-Veronie, Bittere Scheinaster; *Portuguese*: pau fede, fede, libó; *Russian*: vernonija mindal'naja; *Spanish*: hoja amarga, vernonia

Usage ▶ pot-herb, plant ash substitute for salt

Parts Used ▶ leaf

Distribution ▶ tropical Africa: Nigeria, Arabia, also cultivated in gardens

Note ▶ The refined plant ash, also of *Verbena conferta* Benth., are used as salt.

Aedo et al. 2001; Ayensu 1978; Burkill 1, 1985; Davidson 1999; Erhardt et al. 2002; Oomen/Grubben 1978; Schultze-Motel 1986; Seidemann 1993c; Uphof 1968; Zeven/de Wet 1982



Vernonia anthelmintica (L.) Willd.

Synonyms ▶ *Baccharoides anthelmintica* (L.) Moench

Common Names ▶ kala jiri; *German*: Indischer Schwarzkümmel, Wurmscheinaster

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ Africa, Arab Peninsula, India, China, W Asia, Indochina

Chopra 1956; Erhardt et al. 2002; Hanelt 2001; Rätsch 1998; Schultze-Motel 1986; Uphof 1968; Wealth of India 10, 1976; Wiersema/León 1999; Zeven/de Wet 1982



Vernonia cinerea Less.

Synonyms ► *Vernonia albicans* DC.; *Vernonia leptophylla* DC.

Common Names ► little ironwood; *German*: Kleines Eisenholz, Kleine Scheinaster; *Indonesian*: maryuna; sasawi langit; *Malaysian*: rumput tahi babi, tambak-tambak; *Pilipino*: kolong-kugon, agas-moro, bulak-manok; *Thai*: kaan thuup, yaa dok khaao, yaa saam wan

Usage ► pot-herb (in India)

Parts Used ► leaf

Distribution ► Africa, China, E Asia, India, Indochina, Malaysia, Australia, native elsewhere

Arora/Pandey 1996; Wiersema/León 1999



Vernonia conferta Benth

► *Vernonia amygdalina* Delile



Vernonia leptophylla DC.

► *Vernonia cinerea* (L.) Less.

VETIVERIA Bory - Vetiver - Poaceae (Gramineae)



Vetiveria odorata Virey

► *Vetivera zizanioides* (L.) Nash



Vetiveria zizanioides (L.) Nash

Synonyms ► *Andropogon festucoides* J.S. Presl., *Andropogon muricata* Retz., *Andropogon squarrosus* Hackel, *Andropogon zizanioides* (L.) Urban, *Vetiveria odorata* Virey

Common Names ► cus cus (grass), khus khus (grass), vetiver (grass); *Arabic*: izkhir; *Chinese*: xiang-geng-sao; *French*: vétivier, chiendent del Indes, chiendent odorant; *German*: Vetivergras, *Hindi*: khas-khas, vettiver, khus khus; *Malaysian*: nara

wastu, akar wangi, kusu-kusu; nara setu; *Nigerian*: jema, so'dornde, so'mayo; *Sanskrit*: abhaya, bala, nalada, usiira; *Pilipino*: moras, amora, anis de moro, ilib, moras; *Spanish*: zacate violeta; *Sri Lanka*: sevendara, vettiver; *Thai*: faek, ya-faek-hom, ya-faeklum

Usage ► flavoring; **product**: essential oil (essence de Vetiver, vetiver oil)

Parts Used ► rhizome, root

Distribution ► S Asia: S India, Sri Lanka, China, Thailand, Malaysia, Philippines, Pakistan, Bangladesh and spread from SW Asia to tropical Africa: Zimbabwe, Kenya, Somalia, Nigeria; S America: Brazil, Colombia, Paraguay; widely cultivated in paleotropical lands

Bombarda et al. 1996; Bourton 1968; Chauhan 1999; Dastur 1954; Davidson 1999; Erhardt et al. 2002; Garner 1971; Gottlieb/Iachan 1951; Grimshaw/Helfer 1995; Hager 5, 1993; Hanelt 2001; Hiller/Melzig 1999; Kumar 2001; Lavania 1991; Lück 2004; Maffei 2002; Mors/Rizzini 1961; Rao 1966; Robbins 1982; Roth/Kormann 1997; Sangat-Roemantyo 1990; Seidemann 1993c, 1998/2000; Sharma 2003; Shiva et al. 2002; Smadja 1990, 1991; Uphof 1968; Virmani/Datta 1975; Wiersema/León 1999; Zeven/de Wet 1982

VIOLA L. - Violet - Violaceae



Viola cornuta L.

Common Names ► beddy pansy, horned pansy, horned violet, tufted pansy; *French*: violette cornue; *German*: Gehörntes Veilchen, Horn-Veilchen, Pyrenäen-Stiefmütterchen

Usage ► flavoring

Parts Used ► flower

Distribution ► SW Europe, native elsewhere, cultivated in gardens

Cheers 1997; Erhardt et al. 2000, 2002; Köhlein 1999; Wiersema/León 1999



Viola odorata L.

Synonyms ► *Viola officinalis* Cr., *Viola sarmentosa* M. Bieb.

Common Names ► common violet, florist's violet, gar-

den violet, sweet scented violet; *Arabic*: banaf sag; *French*: violet, violette de mars, violette odorante; *German*: März-Veilchen; Wohlriechendes Veilchen; *Hindi*: banaphsa; *India*: banef shah; *Italian*: viola mammola, viola zopa, mammolo ros-eviole, violetta; *Javanese*: antanan; *Russian*: fialka duschistaja; *Sanskrit*: nilapuspa; *Spanish*: violeta

Usage ▶ flavoring (milk pudding, ice cream) and as an edible decoration for dishes; **product**: frost, essence: sweets, liqueur “Parfait d’amour”; **product**: essential oil: perfumery industry

Parts Used ▶ flower, (and culinary) herb

Distribution ▶ N Africa, Caucasus, Europe, also cultivated

Note ▶ In early Greek and Roman times violets were used to flavor butter, oil, vinegar and wine. The floral leaves are often candied and used in confectionery.

Aichele/Schwegler 3, 1995; Berger 2, 1950; 4, 1954; Bourton 1968; Bremness 2001; Charalambous 1994; Cheers 1998; Cohnen 1993a; Coiciu/Racz (no year); Dastur 1954; Davidson 1999; Erhardt et al. 2002; Erichsen-Brown 1989; Fleischhauer 2003; Heeger 1956; Hiller/Melzig 1999; Hoffmann et al. 1992; Hoppe 1949; Köhlein 1999; Máñez/Viliar 1989; Rättsch 1998; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Sharma 2003; Small 1997; Täufel et al. 1993; Tucker 1986; Villamar et al. 1994; Wiersema/León 1999; Zeven/de Wet 1982



Viola officinalis Cr.

▶ *Viola odorata* L.



Viola sarmentosa M.Bieb.

▶ *Viola odorata* L.

VITEX L. - Chaste Tree - Verbenaceae



Vitex agnus-castus L. ■

Common Names ▶ chaste pepper; *Arabic*: ghar, kaf mariyam, kherwa, fitex, shajarat; *Brazil (Portuguese)*: alecrim de angola, alecrim do norte, pau de an-

gola; *French*: gattilier agneau-chaste, poivre des moines; *German*: Mönchspfeffer, Keuschlamm, Abrahamstrauch; *India*: athlac, panjangusht, ranukabija, shambhaluka-bija; *Italian*: agnocasto, albero del pepe, pepe falso; *Russian*: awraamowo derewo

Usage ▶ spice

Parts Used ▶ fruit

Distribution ▶ Mediterranean region, Balkan, Asia minor, Iran, Caucasus to C Asia

Note ▶ Cultivated as a substitute and alternative for black pepper when not available.

Bärtels 1997; Bois 1934; Doğan/Mert 1998; Ekundayo et al. 1990; Erhardt et al. 2000, 2002; Feil et al. 2002; Griebel 1943b; Hepper 1992; Hiller/Melzig 1999; Kartnig 1986; Mors et al. 2000; Newall et al. 1996; Pschyrembel 1998; Rajendran/Daniel 2002; Schönfelder 2001; Schultze-Motel 1986; Seidemann 1993c; Senatore et al. 1996; Siewek 1990; Sørensen/Katsiotis 2000; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Woltenweber 1983; Wyk et al. 2004; Zeven/de Wet 1982



Vitex arborea Desf.

▶ *Vitex negundo* L.



Vitex bicolor Willd.

▶ *Vitex negundo* L.



Vitex chinensis Mill

▶ *Vitex negundo* L.



Vitex negundo L.

Synonyms ▶ *Vitex arborea* Desf., *Vitex bicolor* Willd., *Vitex chinensis* Mill.

Common Names ▶ Chinese chaste tree, horse shoe vitex; *Chinese*: kunang ching, kuang jing; *German*: Chinesischer Mönchspfeffer; *Malaysian*: lagundi, lemuning, peninchang

Usage ▶ spice (rarely)

Parts Used ▶ fruit



■ **Vitex agnus-castus:** a flowering, b fruiting

Distribution ► E Africa, Madagascar, India, Sri Lanka, Afghanistan, China, SE Asia, Philippines

Bois 1923; Chauhan 1999; Erhardt et al. 2002; Hanelt 2001; Rajendran/Daniel 2002; Schultze-Motel 1986; Sharma 2003



Vitis quadrangularis Wall. et.



Cissus quadrangularis L.



Volkameria orientalis O. Kuntze



Sesamum indicum L.

WARBURGIA Engl. - Canellaceae

Warburgia salutaris (Bertol.f.) Chiov.

Common Names ► pepperbark tree; *German*: Heil-Warburgie; *Zulu*: isibhaha

Usage ► spice (locally)

Parts Used ► leaf, bark

Distribution ► E, S Africa

Note ► All plant parts have a peppery-hot taste.

Wyk et al. 2004

Warburgia ugandensis Spargue

Common Names ► Uganda warburgia; *German*: Uganda-Warburgie

Usage ► flavoring

Parts Used ► bark

Distribution ► E Africa, especially Uganda

Note ► The bark has a cinnamon-like taste.

Wyk et al. 2004

WASABIA Matsum. - Wasabi - Brassicaceae (Cruciferae)

Wasabia japonica (Miq.) Matsum.

Synonyms ► *Alliaria wasabi* Prantl., *Cochlearia wasabi* Sieb., *Eutrema wasabi* (Sieb.) Maxim, *Wasabi pungens* Matsum.

Common Names ► Japanese horseradish, mountain hollyhock, wasabi; *Chinese*: shan yu cai, shan kui; *French*: wasabi, raifort du japonais, raifort vert; *German*: Japanischer Meerrettich; *Japanese*: tsi, kiseseri, wasabi; *Korean*: maeunkochunaengi; *Portuguese*: wasabi, rábano japonés; *Russian*: wasabi; *Spanish*: wasábia, rábano japonés, rabanète japonés

Usage ► spice, like horse radish, a sushi condiment

Parts Used ► rhizome, herb, leaf stalk

Distribution ► Japan, E Siberia, E Asia

Note ► As a spice used raw, as a paste or as a dry powder.

Bois 1934; Chadwick et al. 1993; Davidson 1999; Depree et al 1999; Duke et al. 2003; Erhardt et al. 2002; Hanelt 2001; Hodge 1974; Hu 1991; Ina et al. 1989; Kling 1998; Kojima 1976; Kojima et al. 1982, 1985; Larkcom 1991; Mansfeld 1986; Ochi et al. 1995; Palmer 1990b; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Sultana et al. 2003; Suzuki 1968; Täufel et al. 1993; Teuscher 2003; Tucker 1986; Uhl 2000; Uphof 1968; Watanabe et al. 2003; Wiersema/León 1999; Zeven/de Wet 1982

Wasabi pungens Matsum.

► *Wasabi japonica* (Miq.) Matsum.

WEDELIA Jacq. - Goldcup - Asteraceae (Compositae)

Wedelia biflora (L.) DC.

Synonyms ▶ *Wedelia scandens* C.B. Clarke; *Wollastonia biflora* (L.) DC.

Common Names ▶ *German*: Kletter Wedelie; *Indonesian*: saruni laut, cinga-cinga; *Pilipino*: hagonoi; *Thai*: phak khraat thale

Usage ▶ flavoring

Parts Used ▶ young leaf

Distribution ▶ tropical Africa to India, Indochina to Japan, Malaysia to tropical Australia

Arora/Padney 1996; Miles et al. 1993

Wedelia scandens C.B. Clarke

➤ *Wedelia biflora* DC.

WEINMANNIA L. - Cunoniaceae

Weinmannia fraxinea Sm. ex D. Don

➤ *Weinmannia sundaica* Bl.

Weinmannia sundaica Bl.

Synonyms ▶ *Weinmannia fraxinea* Sm. ex D. Don

Common Names ▶ *German*: Eschenartige Weinmannie

Usage ▶ flavoring (foods)

Parts Used ▶ herb

Distribution ▶ Molucca Islands

Burkhill 1966; Oyen/Dung 1999

WESTRINGIA Sm. - Australian Rosemary - Lamiaceae (Labiatae)

Westringia fruticosa (Willd.) Druce

Synonyms ▶ *Westringia rosmariniformis* Sm.

Common Names ▶ Australian rosemary; *German*: Australischer Rosmarin

Usage ▶ spice, like rosemary

Parts Used ▶ leaf, herb

Distribution ▶ Australia: Queensland, New South Wales

Cheers 1998; Erhardt et al. 2002; Small 1997

Westringia rosmariniformis Sm.

➤ *Westringia fruticosa* (Willd.) Druce

Winterana canella L.

➤ *Canella alba* (L.) Murr.

Wintera aromatica Desc.

➤ *Drimys winteri* J.R. et G. Forst.

Winterana canella L.

➤ *Canella winterana* (L.) Gaertn.

WRIGHTIA R.Br. - Apocynaceae

Wrightia arborea (Dennst.) Mabberley

➤ *Wrightia tomentosa* Roem. et Schult.

Wrightia hamiltoniana Wall.

➤ *Wrightia tomentosa* Roem. et Schult.

**Wrightia tomentosa (Roxb.) Roem. et Schult.**

Synonyms ► *Wrightia arborea* (Dennst.) Mabberley;
Wrightia hamiltoniana Wall.

Usage ► pot-herb (by Santhals)

Parts Used ► leaf

Distribution ► India: Bihar, Kokna, Warli, Thailand

Arora/Padney 1996; Dastur 1954; Sharma 2003; Uphof 1968

X

 Xanthophthalmum coronarium (L.) Trehane

► *Chrysanthemum coronarium* L.

 Xanthoxylum-Species

► *Zanthoxylum-Species*

 Ximenia aegyptica L.

► *Balanites aegyptica* (L.) Del.

XYLOPIA L. - African Pepper - Annonaceae

 Xylophia acutiflora (Dun.) A. Rich.

Common Names ► mountain spice (of Sierra Leone);
French: elo à petites feuilles; *German*: Spitzblütiger Mohrenpfeffer

Usage ► spice, used like black pepper

Parts Used ► seed

Distribution ► W Africa: Ghana, Nigeria, Sierra Leone, W Cameroon

Note ► The ripe fruit with a coral-red pulp has a spice taste like several other *Xylophia* species.

Burkill 1, 1985

 Xylophia aethiopica (Dun.) A. Rich. ■

Synonyms ► *Unona aethiopica* Dun., *Xylophia eminii* Engl.

Common Names ► African pepper, Ethiopian pepper, Guinea pepper, kimba pepper, negro pepper, grains of Selim, spice tree; *Cameroon*: ebongo, iko-la hindi kimba, mbonji, okolo; *Congo*: kani; *French*: piment noir de Guinée, poivre de Guinée, poivre d'Éthiopie, poivre negre; kani; *German*: Äthiopischer Pfeffer, Afrikanischer Pfeffer, Kumbapfeffer, Malaguettapfeffer, Mohrenpfeffer, Negerpfeffer, Kani-Körner von Selim; *Portuguese*: cabella kani (Ivory coast), malaguetta da Guine, pimenta da Guiné, malaguetta preta; *Russian*: psewdoloperzy (ksisopii), loschnye perzy, *Spanish*: maniguate, pimenta de Guinea, semillas del oyang

Usage ► spice, used like black pepper

Parts Used ► seed

Distribution ► tropical Africa from Senegal to Sudan and Uganda, southwards to Angola, Zaire, Zambia, and Mozambique, cultivated in the east of W Africa

Note ► Not to be confused with *Piper guineense* Schum. & Thonn; alternative for black pepper; the fruit contains a volatile aromatic oil.

Adegoke et al. 2003; Aedo et al. 2001; Ayedoun et al. 1996; Ayensu 1978; Barminas et al. 1999; Berger 3, 1952; Bois 1934; Burkill 1, 1985; Duke et al. 2003; Ekong/Ogan 1968; Erhardt et al. 2002; Ferrão 1992; Griebel 1943a, 1944; Harrigan et al. 1994; Hiller/Melzig 1999; Jirovets et al. 1997; Karawya et al. 1979; Lamaty et al. 1987; Lück 2000; Melchior/Kastner 1974; Ngouda et al. 1998; Okeke 1998; Pochljobkin 1974, 1997; Schenck/Naundorf 1966; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Siewek

1990; Small 1997; Staesche 1972; Tairu et al. 1999; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Zeven/de Wet 1982

Xylopia aromatica (Lam.) Mart.

Synonyms ▶ *Uvaria aromatica* Lam., *Xylopia granduiflora* St. Hill., *Xylopia longifolia* DC.

Common Names ▶ **Brazil** (*Portuguese*): pachinhos, pimenta de macaco, pimenta de negro; *German*: Burropfeffer, Guinea-Pfeffer; *Peru*: mataro, omechuai caspi; *Portuguese*: embira, envireira, pimenta-de árvore, pimenta-de-gentio, pimenta-de-negro, pimenta da-costa

Usage ▶ spice, condiment, used like pepper; **product**: essential oil

Parts Used ▶ seed

Distribution ▶ tropical America, S Brazil, Peru, Venezuela, Costa Rica

Note ▶ The seeds are reminiscent of black pepper (*Piper nigrum* L.)

Erhardt et al. 2002; Lorenzi 1992; Melchior/Kanert 1974; Moraes/Roque 1988; van Roosmalen 1985; Seidemann 1993c; Seidemann/Siebert 1987; Silva(Rocha 1981; Täufel et al. 1993; Teuscher 2003

Xylopia brasiliensis Spreng.

Synonyms ▶ *Xylopia muricata* Velloso, *Xylopia parrifolia* Schlecht.

Common Names ▶ *German*: Matopfeffer; *Portuguese*: pimenta de mato, pinaíba, pindaubuna

Usage ▶ spice, rarely used like pepper

Parts Used ▶ seed

Distribution ▶ tropical S America: Brazil

de Costa 1959; Lorenzi 1992; Mors/Rizzini 1961

Xylopia carminativa (Aruda) Fries.

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ Brazil to British Guyana

Note ▶ The fruits and seeds have an odor and a taste of pepper.

van Roosmalen 1985; Uphof 1968

Xylopia eminii Engl.

▶ *Xylopia aethiopica* (Dun.) A. Rich.

Xylopia frutescens Aubl.

Common Names ▶ *German*: Halbstrauchiger Mohrenpfeffer; *Portuguese*: coagerucu, pindaíba, embira, envira, jererecou, pau de embira, pejerrecum, pi-jerecu, pimento-de-gentio, pimenta-do-sertão, pindaúba

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ tropical America especially Brazil

Mors et al. 2000; van Roosmalen 1985; Silva 1983; Uphof 1968

Xylopia grandiflora St. Hil.

Common Names ▶ *German*: Großblütiger Mohrenpfeffer; *Portuguese*: malagueto

Usage ▶ **product**: essential oil

Parts Used ▶ flower

Distribution ▶ tropical S America, especially Brazil

Note ▶ The essential oils have a pepper-like flavor.

Uphof 1968

Xylopia longifolia DC.

▶ *Xylopia aromatica* (Lam.) Mart.

Xylopia parviflora (A. Rich.) Benth.

Common Names ▶ striped African pepper; *French*: fondé des rivières, poivres de Sédhio; *German*: Sédhion Pfeffer, Kleinblütiger japanischer Pfeffer, Gestreifter Mohrenpfeffer; *Nigerian*: aghako, kimba, sedo

Usage ▶ spice

Parts Used ▶ fruiting carpels

Distribution ▶ W Africa: Cameroon, Ghana, the Gambia, Nigeria, Senegal, Sierra Leone, Togo

Burkill 1, 1985; Jirovetz et al. 1997; Uphof 1968

 ***Xylopia muricata* Velloso**

➤ *Xylopia brasiliensis* Spreng.

 ***Xylopia parvifolia* Schlecht.**

➤ *Xylopia brasiliensis* Spreng.

 ***Xylopia quintasii* Pierre ex Engl. et Diels**

➤ *Xylopia striata* Engl.

 ***Xylopia sericea* St. Hil.**

Synonyms ▶ *Mayna sericea* Spreng.

Common Names ▶ *German*: Seidiger Mohrenpfeffer;
Portuguese: pindaíba-vermelha, pindaubuna-da-serra

Usage ▶ condiment

Parts Used ▶ seed

Distribution ▶ Brazil, Bolivia

Note ▶ The seeds used somewhat similar to black pepper (*Piper nigrum* L.)

Lorenzi 1992; Matos et al. 1984, 1985; Mors et al. 2000; van Roosmalen 1985; Uphof 1968

 ***Xylopia staudtii* Engl. et Diels**

Common Names ▶ bush pepper, Guinea pepper

Usage ▶ spice (rarely)

Parts Used ▶ fruit

Distribution ▶ W Africa: Ghana, Ivory Coast, Liberia, Sierra Leone

Burkill 1, 1985

 ***Xylopia striata* Engl. ■**

Synonyms ▶ *Xylopia quintasii* Pierre ex Engl. et Diels

Common Names ▶ negro pepper; *German*: Gestreifter Mohrenpfeffer, Kani

Usage ▶ spice

Parts Used ▶ fruit



■ **Xylopia: a *X. aethiopica*, fruits, b *X. striata*, fruits**

Distribution ▶ W Africa

Erhardt et al. 2002; Griebel 1943; Melchior/Kastner 1974; Seidemann 1993c; Seidemann/Siebert 1987; Täufel et al. 1993; Teuscher 2003; Uphof 1968

 ***Xylopia undulata* P. Beauv.**

➤ *Monodora myristica* (Gaertn.) Dun.

ZANTHOXYLUM L. - Yellow wood - Rutaceae

Zanthoxylum acanthopodium DC.

Synonyms ▶ *Zanthoxylum acanthopodium* DC. var. *timbor* Hook.f.

Common Names ▶ Chinese pepper, tomar seed; *Chinese*: guo ma ka; *German*: Chinesischer Pfeffer; *Hindi*: darmar, tejphal; *Vietnamese*: sèn

Usage ▶ flavoring

Parts Used ▶ seed

Distribution ▶ Himalayas, N Bengal, Naga and Khasi hills, China, India, Vietnam

Note ▶ In S China cultivated and utilized for its pleasant flavor; the plant has a peculiar flavor of coriander; products of watara oil (from the fruits) are used in perfumery.

Hanelt 2001; Shiva et al. 2002; Teuscher 2003; Wealth of India 11, 1976

Zanthoxylum acanthopodium DC. var. *timbor* Hook.f.

➤ *Zanthoxylum acanthopodium* DC.

Zanthoxylum alatum Roxb.

➤ *Zanthoxylum armatum* DC.

Zanthoxylum armatum DC.

Synonyms ▶ *Zanthoxylum alatum* Roxb.

Common Names ▶ Chinese pepper, Szechuan pepper; *Chinese*: hua jiao; *German*: Chinesischer Pfeffer, Szechuanpfeffer; *Hindi*: darmar, nepali dhaniya; *Japanese*: fuyu-sanshō; *Sanskrit*: tumburu, dhiva, gandhalu; *Vietnamese*: sengai;

Usage ▶ spice

Parts Used ▶ seed

Distribution ▶ India, Pakistan, Nepal, Himalayas, Malaysia, Philippines

Chauhan 1999; Dalby 2000; Davidson 1999; Erhardt et al. 2002; Facciola 1990; Hanelt 2001; Hiller/melzig 1999; Oyen/Dung 1999; Sharma 2003; Small 1997; Tucker 1986; Wealth of India 11, 1976

Zanthoxylum avicennae (Lam.) DC.

Synonyms ▶ *Fagara avicennae* Lamk., *Zanthoxylum diversifolium* Warb., *Zanthoxylum tidorensis* Miq.

Common Names ▶ *Indonesian*: karangeang, *Pilipino*: bagatambal

Usage ▶ spice: leaf resembling coriander leaves; seeds like anise; flavoring (fruit)

Parts Used ▶ leaf, seed, fruit

Distribution ▶ Thailand, China, Indonesia, Malaysia

Guzman/Siemonsma 1999; Oyen/Dung 1999; Uphof 1968

Zanthoxylum bungeanum Maxim

➤ *Zanthoxylum simulans* Hance

 Zanthoxylum budrunga Wall. ex DC.

➤ *Zanthoxylum rhetsa* DC.

 Zanthoxylum bungei Planch.

➤ *Zingiber simulans* Hance

 Zanthoxylum clava-herculis L.

Common Names ▶ Hercules' club, pepper bark, Southern prickly ash, toothache tree, West-India yellow wood; *German*: Westindisches Gelbholz

Usage ▶ flavoring

Parts Used ▶ bark

Distribution ▶ C USA, except WC USA

Berger 1, 1949; Hiller/Melzig 1999; Newall et al. 1996; Rao/Davies 1986; Sharma 2003; Uphof 1968; Wiersema/León 1999

 Zanthoxylum coreanum Nakai

Common Names ▶ Korean yellow wood; *German*: Koreanisches Gelbholz; *Korean*: woangtschopinamu

Usage ▶ spice

Parts Used ▶ leaf, fruit, bark

Distribution ▶ Korea

Hanelt 2001

 Zanthoxylum diversifolium Warb.

➤ *Zanthoxylum avicennae* (Lamk) DC.

 Zanthoxylum fraxinoides Hemsl.

➤ *Zanthoxylum simulans* Hance

 Zanthoxylum gillettii (de Wild.) Waterm.

➤ *Fagara zanthoxyloides* Lam.

 Zanthoxylum limonella (Dennst.) Alston

➤ *Zanthoxylum rhetsa* (Roxb.) DC.

 Zanthoxylum nitidum Bunge

➤ *Zanthoxylum simulans* Hance

 Zanthoxylum oxyphyllum Edgew.

Common Names ▶ *Assam*: mezzenga; *Nepal*: timur, bhansi timur, szri

Usage ▶ condiment of curries

Parts Used ▶ fruit

Distribution ▶ Himalayan region, in India also cultivated

Hanelt 2001; Kumar 2003; Wealth of India 11, 1976

 Zanthoxylum parviflorum (A. Rich.) Benth.

Common Names ▶ small-flowered pepper; *German*: Kleinblütiger japanischer Pfeffer

Usage ▶ spice, used like pepper

Parts Used ▶ seed

Distribution ▶ Japan, China, Australia

 Zanthoxylum piperitum DC. ■

Synonyms ▶ *Fagara piperita* L.

Common Names ▶ Indian pepper, Chinese pepper, Sichuan pepper, Japanese prickly, Japanese pepper, Sichuan pepper, Szechuan pepper; *Chinese*: ch'uan chao, nan chiao, chiao mu; *French*: poivre Szetchuan, clavalier poivrier; *German*: Japanischer Pfeffer, (Echter) Szechuanpfeffer, Chinesischer Gelbholzbaum, Sichuanpfeffer; *Japanese*: sanshō, sansho; *Korean*: chophinamu, sanchonamu; *Russian*: japonckij perez, santoksiljum peretschnij, peretschnik; *Slovakian*: fagara; *Thai*: malar

Usage ▶ condiment (seed), pot herb (young leaf)

Parts Used ▶ seed, leaf

Distribution ▶ N China, Japan, Korea, Mongolia, also cultivated Hawaii

Adesina 1986; Bois 1934; Boisvert/Hubert 2000; Craze 2002; Da-



■ **Zanthoxylum piperitum, fruits**

vidson 1999; Erhardt et al. 2002; Hanelt 2001; Hiller/Melzig 1999; Jiang et al. 2001; Jiang/Kubota 2004; Lihua Jiang et al. 2001; Kojima et al. 1997; Kusmoto et al. 1968; Lück 2000; Melchior/Kastner 1974; Norman 1991; Pfänder/Frohne 1987; Pochljobkin 1974, 1977; Sakai et al. 1968; Schulze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Shimoda et al. 1997; Siewek 1990; Small 1997; Teuscher 2003; Tucker 1986; Uphof 1968; Yasuda et al. 1982; Yong-Doo Kim 2000; Zeven de Wet 1982

Zanthoxylum planispinum Sieb. et Zucc.

Common Names ► Chinese pepper; *Chinese*: hua chiao, zhu ye jiao; *French*: clavalier à épines planes; *German*: Breitdorniger Pfeffer, Chinesischer Pfeffer; *Hindi*: darmar, nepali dhaniya, tejphal; *India*: tezbāl, timal, timbar, tundopoda; *Sanskrit*: dhiva, gandhalu tumburu

Usage ► spice

Parts Used ► fruit

Distribution ► China, Japan, Korea, Riukiu Islands, Taiwan

Bois 1934; Dalby 2000; Davidson 1999; Hanelt 2001; Schultze-Motel 1986

Zanthoxylum rhetsa (Roxb.) DC.

Synonyms ► *Fagara rhetsa* Roxb., *Zanthoxylum budrun-ga* Wall. ex DC., *Zanthoxylum limonella* (Dennst.) Alston

Common Names ► Indian prickly ash, Indian pepper, lemon pepper (tree), *French*: clavalier d'Inde; *German*: Indischer Pfefferbaum, Japanischer Pfefferbaum, Falsche Kubeben; *Hindi*: badrang; *India*: tambol, tirphal, rhetsamaramu, ilarangom, mullil-lam; *Javanese*: kadjeng siti, kaju lemal; *Malaysian*: hantar duri; *Sanskrit*: ashvaghra, atitejani, sutejasi, timur; *Sri Lanka*: katu-kina, rhetsu; *Thai*: kanchat-ton

Usage ► spice

Parts Used ► immature fruits, seed; **product**: essential oil (seeds)

Distribution ► India, Sri Lanka; also cultivated, Indonesia

Note ► Seeds as a substitute for pepper by the indigenous population.

Arora/Pandey 1996; Bois 1934; Davidson 1999; Hanelt 2001; Jirovetz et al. 1998; Lück 2004; Schultze-Motel 1986; Seidemann 1993c; Shiva et al. 2002; Small 1997; Teuscher 2003; Uphof 1968; Wealth of India 11, 1976; Wiersema/León 1999; Yasuda et al. 1982

Zanthoxylum senegalensis DC.

► *Fagare zanthoxyloides* Lam.

Zanthoxylum simulans Hance

Synonyms ► *Zanthoxylum bungeanum* Maxim, *Zanthoxylum bugei* Planch., *Zanthoxylum fraxinoides* Hemsl., *Zanthoxylum nitidum* Bunge,

Common Names ► Chinese pepper, Chinese prickly ash pepper; Szechuan pepper, Sichuan pepper; *Chinese*: ch'uan jiao; *French*: poivre chinois, poivre de la Chine, clavalier de Bunge; *German*: Chinesischer Pfeffer, Sech(z)uan-Pfeffer, Sichuan Pfeffer, Täuschende Stachelesche; *Vietnamese*: rau sung, trong

Usage ► spice, used like black pepper; leaf as seasoning

Parts Used ► seed, leaf

Distribution ► N and C China, E Asia; plants in the former Soviet Union

Note ▶ Often an adulterant for black pepper (*Piper nigrum* L.).

Bois 1934; Chen et al. 1994 b, 1995; Chyau et al. 1996; Dalby 2000; Davidson 1999; Ma Chuan-guo 2002; Ogle et al. 2003; Schultze-Motel 1986; Seidemann 1993c; Small 1997; Tirillini/Stoppini 1994; Tirillini et al. 1991; Tscheucher 2003; Uphof 1968; WHO 1990; Wiersema/Léon 1999; Wu/Chen 1993; Xiong et al. 1995; Zeven/de Wet 1982

Zanthoxylum tessmannii (Engl.) J.-F. Ayafor.

Synonyms ▶ *Fagara tessmannii* Engl.

Common Names ▶ African pepper; *French*: poivre africain; *German*: Afrikanischer Pfeffer; *Cameroon*: nashou

Usage ▶ spice (for sauces)

Parts Used ▶ fruit

Distribution ▶ Equatorial Guinea, Congo, Cameroon; also cultivated

Hanelt 2001; Schultze-Motel 1986; Teuscher 2003; Westphal et al. 1980

Zanthoxylum tidorensis Miq.

▶ *Zanthoxylum avicennae* (Lamk) DC.

Zerumbet speciosus J.W. Wendl.

▶ *Alpinia zerumbet* (Pers.) B.L. Burtt et R.M. Sm.

ZINGIBER Boehm. - Ginger - Zingiberaceae

Zingiber amaricans Bl.

▶ *Zingiber zerumbet* (L.) Rosc. ex Sm.

Zingiber aromaticum Noronha

▶ *Zingiber officinale* Rosc.

Zingiber blancai Hassk.

▶ *Zingiber zerumbet* (L.) Rosc. ex Sm.

Zingiber cassumunar Roxb.

Synonyms ▶ *Amomum montanum* Koenig, *Cassumunar roxburghii* Colla, *Zingiber luridum* Salisb., *Zingiber montanum* (Koenig) Dietrich, *Zingiber purpureum* Rosc.

Common Names ▶ Bengal ginger, cassumunar ginger; *French*: gingembre marron; *German*: Blockzitwer, Gelber Zitwer; *India*: jangliadrak; *Indonesian*: banglai; *Javanese*: bengle; *Malaysian*: bangle, bo-lai, bunglai, lampoyang; *Thai*: phlai, puloei, wan-fai

Usage ▶ spice, condiment

Parts Used ▶ rhizome

Distribution ▶ Java, also cultivated, cultivated elsewhere tropical Asia: Cochin, China, Malaysia

Arora/Pandey 1996; Bois 1934; Guzman/Siemonsma 1999; Kumar 2001; Masuda/Jitoe 1994; Melchior/Kastner 1974; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Teuscher 2003; Uphof 1968; Wu et al. 2000; Zevende Wet 1982

Zingiber chrysostachys Ridley

Common Names ▶ *German*: Goldähriger Ingwer; *Malaysian*: lempui

Usage ▶ spice (locally)

Parts Used ▶ rhizome

Distribution ▶ Malaysia

Note ▶ Alternative for *Zingiber zerumbet* (L.) J.E. Sm.

Burkill 1966; Guzman/Siemonsma 1999; Holttum 1950; Kumar 2001; Theilade 1996

Zingiber littorale Val.

▶ *Zingiber zerumbet* (L.) Rosc. ex Sm.

Zingiber luridum Salisb.

▶ *Zingiber cassumunar* Roxb.

Zingiber mioga (Thunb.) Rosc.

Synonyms ► *Amomum mioga* Thunb.

Common Names ► mioga ginger, Japanese (wild) ginger; *Arabic*: zangabeel, *Chinese*: xiang he, jang ho; *French*: zédoaire; *German*: Japanischer Ingwer, Japaningwer; *Italian*: zenzero; *Japanese*: myouga, mioga; *Korean*: yangha; *Malaysian*: temu kuning; *Portuguese*: gengibre; *Russian*: imbir; *Spanish*: jengibre;

Usage ► spice

Parts Used ► rhizome

Distribution ► Japan, China, India, also cultivated in E Asia: China, Japan, Korea, Hawaii

Note ► The rhizomes have a bergamit-like flavor.

Abe et al. 2002; Bois 1934; Davidson 1999; Duke/Ayensu 1985; Erhardt et al. 2002; Guzman/Siemonsma 1999; Han et al 1983; Hanelt 2001; Jung-Hye Shin et al. 2002; Melchior/Kastner 1874; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Small 1997; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Zeven/de Wet 1982

Zingiber montanum (Koenig) Dietrich

► *Zingiber cassumunar* Roxb.

Zingiber nigrum Gaertn.

► *Alpinia nigra* (Gaertn.) Burt

Zingiber officinale Rosc.

Synonyms ► *Amomum angustifolium* Salisb., *Amomum zingiber* L., *Zingiber aromaticum* Noronha, *Zingiber zingiber* Karst.

Common Names ► ginger, common ginger; *Arabic*: al-zangabeel, zenjabil; *Chinese*: chuang, jiang; *Dutch*: gember; *French*: gingembre; *German*: Echter Ingwer, Ingwer; *Hindi*: ada, ale, adrak, sonth; *Indonesian*: jahe, jae, lia; *Italian*: zenzero officinale; *Japanese*: shoga, shouga; *Korean*: saenggang, saeyang; *Malaysian*: haliya, jahi, atuja; *Pilipino*: luya, baseng, laya; *Portuguese*: gengibre, gengibre amarelo, gengibre das boticas; *Russian*: imbir', el'iy koren', zingiber; *Sanskrit*: ardraka (fresh ginger), singabera, sunthi (dry ginger); *Slovakian*: dum-



 **Zingiber officinale, fresh rhizom**

bier; *Spanish*: jengibre, gengibre ofical; *Thai*: khing, khing-daeng; *Turkish*: zentzephil; *Vietnamese*: gung

Usage ► spice, (fresh, dry, candied, shoots, and preserves); **product**: essential oil

Parts Used ► rhizome

Distribution ► frequent cultivated in the Tropics, specially in tropical Asia: China, India, Indonesia and Australia, W Africa; probable origin in tropical Asia

Note ► Fresh ginger-rhizome are often candied and used in confectionery.

Akhila/Tawari 1984a; Aris 2001; Atal et al. 1981; Bartley 1995; Bartley/Foley 1994; Bartley/Jacobs 2000; Beek et al 1987; Bois 1934; Boisvert/Huber 2000; Burkill 5, 2000; Chen/Ho 1988; Chen et al. 1986; Connell 1970; Connell/Jordan 1971; Craze 2002; Dake 1995; Dalby 2000; Das/Sarma 2001; Davidson 1999; Dudtschenko et al. 1989; Duke et al. 2003; Erler et al. 1988; Falch 1997; Farrell 1985; Ferrão 1992; Germer/Franz 1997; Gopalram/Ratnambal 1989; Govindarajan 1982a; Goyal/Korla 1997; Gurib-Fakim et al. 2002; Guzman/Siemonsma 1999; Hanelt 2001; Hartmann/Köstner 1994; Herklots 1972; Herrmann 1999; Hiller/Melzig 1999; Hohmann et al. 2001; Hoppe 1949; Hutton 1998; lee et al. 1986; Jansen 1981; Jia-Jiu/Jui-Sen 1994; Jung-Hye Shin et al. 2002; Kang-jin Cho et al. 2001; Kikuzaki et al. 1992; Kim et al. 1996; Krishnamurthy et al. 1977; Kumar 2001; Larkcom 1991; Larsen et al. 1999; Lawrence/Reynolds 1984; Leverington 1975; Macleod/Pieris 1984; Magda 1993; Mascolo et al. 1989; Maistre 1964; Mazza/Oham 2000; Melchior/Kastner 1974; Miyazawa/Kameoka 1988; Morris/Mackley 1999; Nair et al. 1982; Narasinga Rao (no year); Natarajan et al. 1972; Newall et al. 1996; Nishimura 1995; Norman 1991; Onyenekwe/Hashimoto 1999; Opdyke 1974c; Pérez-Gálvez/Mínguez-Mosquera 2001; Pe-

ter 2001; Pochlobkin 1974, 1977; Pruthi 1976; Pschyrembel 1998; Rosengarten 1969; Roth/Kormann 1997; Sakawura 1987; Schenck/Naundorf 1966; Schröder 1991; Schuhbaum/Franz 2000; Schultze-Motel 1986; Seidemann 1993c; Seidemann/Siebert 1987; Selbitschka 1991; Sharma 2003; Sharpnel 1967; Siewek 1990; Small 1997; Smith 1981; Staesche 1972; Steinegger/Stück 1982; Täufel et al. 1993; Teuscher 2003; Thode-Sonntag/Thode-Sonntag 1988; Tomlinson 1956; Uphof 1968; Vaupel 2002b; Villamar et al. 1974; Wagner 1992; Westermann 1909; WHO 1990; Wiersema/León 1999; Winterton/Richardson 1965; Wong 1999; Wu 1985; Wüstenfeld/Haensel 1964; Wyk et al. 2004; Yajing Shao et al. 2003; Yusuf et al. 2002; Zarate/Yeoman 1994; Zeven/de Wet 1982; Zhang et al. 1994, 2001

Zingiber purpureum Rosc.

➤ *Zingiber cassumunar* Roxb.

Zingiber spectabile (Griffith) Not.

Common Names ▶ black gingerwort, nodding ginger;
German: Ansehlicher Ingwer, Nickender Ingwer;
Malaysian: tepai, tepus halia, tepus tanah; *Thai*: changoe, dakngoe;

Usage ▶ flavoring (locally in Malaysia)

Parts Used ▶ rhizome

Distribution ▶ Malaysian Peninsula, Thai Peninsula

Erhardt et al. 2002; Guzman/Siemonsma 1999; Holttum 1950; Larsen et al. 1999; Wong 1999

Zingiber xanthorrhizum Moon

➤ *Boesenbergia rotunda* (L.) Mansf.

Zingiber zerumbet (L.) Rosc. ex Sm.

Synonyms ▶ *Amomum sylvestre* Lam., *Amomum zerumbet* L., *Zingiber amaricans* Bl., *Zingiber blancai* Hassk., *Zingiber littorale* Val.

Common Names ▶ wild ginger, zerumbet ginger; *American*: shampoo ginger; *French*: gingembre fou, gingerbre blanc; *German*: Bitterer Ingwer; *Indonesian*: lampuyang; *Japanese*: hana-shôga; *Malaysian*: lampoyang, mpojang, noronha; *Pilipino*: barik, langkawas, lampuyang; *Portuguese*: gen-



 **Zingiber zerumbet, flowering**

gibre-amargo; *Spanish*: jengibre amargo; *Thai*: kathue, kathue-pa, kawaen

Usage ▶ spice

Parts Used ▶ rhizome

Distribution ▶ SE Asia; probably indigenous to India, cultivated in India, Sri Lanka and China

Note ▶ In Java var. *amaricans* (Bl.) Theilade occurs wild and cultivated, var. *aromaticum* (Val.) Theilade is found cultivated and sometimes wild or native, whereas var. *zerumbet* is only known cultivated.

Arona/Pandey 1996; Bois 1934; Dalby 2000; Davidon 1999; Erhardt et al. 2002; Guzman/Siemonsma 1999; Holttum 1950; Kumar 2001, 2003; Larsen et al. 1999; Melchior/Kastner 1974; Schultze-Motel 1986; Seidemann 1993a, c; Seidemann/Siebert 1987; Shiobara et al. 1986; Staesche 1972; Täufel et al. 1993; Teuscher 2003; Uphof 1968; Wiersema/León 1999; Wong 1999; Wüstenfeld/Haensel 1964; Yusuf et al. 2002; Zeven/de Wet 1982

Zingiber zingiber Karst.

➤ *Zingiber officinale* Rosc.

ZIZIPHORA L. - Lamiaceae (Labiatae)

Ziziphora pulegioides (L.) Desf.

➤ *Hedeoma pulegioides* (L.) Pers.

Ziziphora tenuior L.

Common Names ▶ *German*: Judendorn; *Russian*: zizi-
fora

Usage ▶ spice (flavoring) in Turkey for yoghurt

Parts Used ▶ leaf

Distribution ▶ C Asia: Turkey (Anatolia)

Dudtschenko et al. 1989; Hanelt 2001; Kulakovskaya 1976; Maberly 1997; Sezik et al. 1991; Uphof 1968

ZOSTERA L. - Eelgrass - Zosteraceae (Potamogetonaceae)

Zostera marina L.

Synonyms ▶ *Alga marina* Lam. *Zostera maritima* Gaertn.

Common Names ▶ eel grass, grass wrack; *Chinese*: hai dai; *French*: zostère marine; *German*: Gewöhnliches Seegras, Schmalblättriges Seegras; *Italian*: alga marina, aliga, allego; *Japanese*: ama-mo; *Russian*: trawa morskaja, sostera; *Spanish*: hierba marina

Usage ▶ spice of meat of the Seri-Indian

Parts Used ▶ root

Distribution ▶ N Atlantic and N Pacific coasts

Duke/Ayensu 1985; Erhardt et al. 20002; Fleischhauer 2003; Hanelt 2001; Schnelle 1999; Seidemann 1993c; Täufel et al. 1993; Uphof 1968

Zostera maritima Gaertn.

➤ *Zostera marina* L.

ZYGOPHYLLUM L. - Zygophyllaceae

Zygophyllum coccineum L.

Common Names ▶ Arabian pepper; *French*: poivre les Arabes; *German*: Arabischer Pfeffer

Usage ▶ spice (rarely)

Parts Used ▶ seed

Distribution ▶ N Africa, Arabia

Bois 1934

Zygophyllum tridentatum Sesse et Moç.

➤ *Larrea tridentata* (Sesse et Moç.) ex DC. Cav.

Zygophyllum fabago L.

Common Names ▶ bean caper, Syrian bean caper; *French*: fabagelle; *German*: Bohnenkaper; *Russian*: parno-listnik

Usage ▶ condiment

Parts Used ▶ flower bud

Note ▶ Substitute for capers (*Capparis spinosa* L.)

Distribution ▶ Caucasus, C and W Asia, India, E and SE Europe, native elsewhere

Dudtschenko et al. 1989; Hanelt 2001; Hiller/Melzig 1999; Rättsch 1998; Schultze-Motel 1986; Wiersema/León 1999

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